

FINAL REPORT

SPACE SHUTTLE MAIN ENGINE STRUCTURAL ANALYSIS AND DATA REDUCTION/EVALUATION

VOLUME 6: PRIMARY NOZZLE DIFFUSER ANALYSIS

April 1989

Contract NAS8-37282

Prepared for

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER, AL 35812

by

Michael J. Foley

 **Lockheed**
Missiles & Space Company, Inc.
Huntsville Engineering Center
4800 Bradford Blvd., Huntsville, AL 35807

(NASA-CR-183669) SPACE SHUTTLE MAIN ENGINE
STRUCTURAL ANALYSIS AND DATA
REDUCTION/EVALUATION. VOLUME 6: PRIMARY
NOZZLE DIFFUSER ANALYSIS Final Report
(Lockheed Missiles and Space Co.) 118 p

N89-24437

Unclass
0211800

G3/20

FOREWORD

This volume of the final report summarizes the analysis performed on the Primary Nozzle Diffuser located on the Space Shuttle Main Engine. Static stress analysis was performed by Michael J. Foley, P.E., in the Structures & Mechanics Section of the Lockheed-Huntsville Engineering Center under Contract NAS8-37282.

CONTENTS

<u>Section</u>		<u>Page</u>
FOREWORD		ii
1 INTRODUCTION AND OVERVIEW		1
2 MODEL DESCRIPTION		2
3 BOUNDARY CONDITIONS/LOAD CASE		4
4 MATERIAL PROPERTIES		5
5 STRUCTURAL ANALYSIS/RESULTS		6
6 SUMMARY		8

Appendices

A Model Listing	A-1
-----------------	-----

LIST OF TABLES

<u>Table</u>		<u>Page</u>
1 SSME Diffuser Model Data		3
2 Material Properties		5
3 Diffuser Stresses		6
4 Maximum Cylinder Stresses		7
5 Margins of Safety		8

CONTENTS (Concluded)

LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
1	SSME Nozzle	9
2	SSME Diffuser Model	10
3	Cylinder 1 - To Chamber Coolant Valve	11
4	Cylinder 2 - To Main Combustion Chamber Coolant Manifold	12
5	Cylinder 3 - To Nozzle Coolant Inlet	13
6	Cylinder 4 - To Nozzle Coolant Inlet	14
7	Cylinder 5 - To Nozzle Coolant Inlet	15
8	Sphere	16
9	Flange	17
10	Bracket	18
11	Diffuser	19

1. INTRODUCTION AND OVERVIEW

The Primary Nozzle Diffuser routes fuel from the main fuel valve on the SSME to the nozzle coolant inlet manifold, main combustion chamber coolant inlet manifold, chamber coolant valve, and the augmented spark igniters. The diffuser also includes the fuel system purge check valve connection. Figure 1 shows the location of the diffuser with respect to the SSME nozzle.

A static stress analysis was performed on the diffuser because no detailed analysis has been done on this part in the past. Structural concerns were in the area of the welds because approximately 10% are in areas inaccessible by x-ray testing devices. Flow dynamics and thermodynamics were not included in the analysis load case. Constant internal pressure at maximum SSME power was used instead.

A three-dimensional, finite element model was generated using ANSYS version 4.3A on Lockheed's VAX 11/785 computer to perform the stress computations. IDEAS Supertab on a Sun 3/60 computer was used to create the finite element model. Rocketdyne drawing number RS009156 was used for the model interpretation. The flight diffuser is denoted as -101.

A description of the model, boundary conditions/load case, material properties, structural analysis/results, and a summary are included for documentation.

2. MODEL DESCRIPTION

An ANSYS finite element model was made for the primary nozzle diffuser using Supertab for the model generation. The model consists of 1922 nodes and 1873 elements. The model is constructed using quadrilateral shell elements except for two triangular shell elements that were used for special geometry conditions. Both element types are capable of bending as well as membrane behavior. Figure 2 shows an isometric, hidden line plot of the undeformed geometry. From the figure, the modeled attachment bracket, inlet flange, and outlet tubes can be identified. Table 1 lists the model component groups, element numbering ranges, radii, element thicknesses, and property numbers. Although the table lists each outlet cylinder and the sphere as having a constant element thickness, some elements around the interfaces are thicker to represent the fillet areas on the hardware. A unique property number was used with each element thickness, but the entire model consists of only one material type.

The diffuser assembly has two bosses and numerous fillets which were not modeled because of the extensive detail required. Various wall thicknesses resulting from these bosses, fillets, and elliptical tangents could only be modeled with distinct thickness changes over the length of the diffuser and around the sphere and outlet cylinders. The outlet for the augmented spark igniters and the fuel system purge opening were not modeled explicitly.

Table 1 SSME DIFFUSER MODEL DATA

A	B	C	D	E	F	G	H	I	J	
1	GROUP	ITEM	SUBAREA	1ST ELEM	NO. ELEM	LAST ELEM	RADIUS	THICKNESS	PROP.	S (ksi)
2										
3	1	CYL1		32	1	64	64	1.2275	0.135	1 64
4				5	65	42	106			
5				4	107	34	140			
6				3	141	32	172			
7				1	173	26	198			
8	2	CYL2		10	199	8	206	0.935	0.105	2 62
9				9	207	29	235			
10				8	236	34	269			
11				7	270	19	288			
12				6	289	19	307			
13	3	CYL3		14	308	21	328	0.75	0.135	1 39
14				13	329	9	337			
15				12	338	13	350			
16				11	351	29	379			
17	4	CYL4		20	380	14	393	0.75	0.135	1 39
18				19	394	11	404			
19				18	405	6	410			
20				17	411	4	414			
21				16	415	2	416			
22				15	417	2	418			
23	5	CYL5		25	419	4	422	0.75	0.135	1 39
24				24	423	22	444			
25				23	445	15	459			
26				22	460	10	469			
27				21	470	28	497			
28	6	SPHERE		1024	498	7	504	2.32	0.25	3 32
29				1023	505	4	508			
30				1022	509	4	512			
31				1021	513	7	519			
32				1020	520	6	525			
33				1019	526	6	531			
34				1018	532	1	532			
35				38	533	17	549			
36				37	550	83	632			
37				36	633	66	698			
38				35	699	26	724			
39				34	725	29	753			
40				33	754	40	793			
41				31	794	63	856			
42				30	857	2	858			
43	7	FLANGE		1025	859	52	910		1.12	4 0
44				1017	911	52	962			
45				1016	963	52	1014			
46				1015	1015	52	1066			
47	8	BRACKET		1006	1067	48	1114		0.125	5 0
48				1005	1115	51	1165			
49				1004	1166	63	1228			
50				1003	1229	63	1291			
51	9	DIFFUSER		1031	1292	64	1355	2.206	0.4	7 39
52				1030	1356	64	1419			
53				1029	1420	20	1439			
54				1028	1440	22	1461			
55				1027	1462	46	1507			
56				1026	1508	46	1553			
57				1010	1554	79	1632	1.3725	0.18	6 60
58				1009	1633	80	1712			
59				1008	1713	79	1791			
60				1007	1792	80	1871			
61	10	TRIANGLES		1002	1872	1	1872		0.125	5 0
62				1001	1873	1	1873			

3. BOUNDARY CONDITIONS/LOAD CASE

The model was constrained at the inlet flange, the attach bracket, and the outlet cylinders. The inlet flange constraints were imposed at a radius equal to the radius of the 14 attaching bolts. The diffuser was also constrained by the attach bracket which connects the component to the coolant outlet manifold. The bracket was modeled to an adequate length to simulate the hardware attachment stiffness, and full constraints were added. Finally, all five outlet tubes were constrained at the weld interfaces. All six (three translational and three rotational) degrees of freedom were fixed for all constraints.

Bernoulli's fluid flow equation,

$$\frac{P}{\rho} + gz + \frac{V^2}{2} = \text{constant}$$

for steady state, incompressible, streamlined flow, has been greatly simplified by ignoring the fluid weight, gz , and the flow rate, $V^2/2$. The only load case analyzed was for an internal pressure of 6980 psi. This value was obtained from the structural audit of the component dated 23 May 1986 and was applied on all internal surfaces. The flange and bracket assemblies were not loaded by fuel pressure. This pressure was higher than the fuel pump discharge pressure at Full Power Level and therefore the analysis was considered conservative.

Thermal loads were ignored because no thermal gradients exist in the diffuser. The thermal environment for the component is -350 °F, which is the fuel temperature.

4. MATERIAL PROPERTIES

The primary nozzle diffuser is an Inconel 718 forging. Table 2 lists the material properties used in the analysis.

Table 2 MATERIAL PROPERTIES

Inconel 718 Forging	
Yield stress, σ_y	150 ksi
Ultimate stress, σ_u	180 ksi
Young's modulus, E	30,000 ksi
Poisson's ratio, ν	0.291
Density, ρ	0.7254E-3 lb-s ² /in.
Temperature, α^*	0.2006E-5 in/in/°F

*Thermal effects were neglected.

Fatigue analysis was not performed, so signal-to-noise curves for this material were not required.

5. STRUCTURAL ANALYSIS/RESULTS

The ANSYS finite element code was used to determine the stress distribution for the model under the static pressure load. A failure criterion of maximum yield stress was used in this analysis to compute a minimum margin of safety for the component.

Principal stress contour plots on the exaggerated deformed diffuser model are shown in Figures 3 through 11. For the five cylindrical output tubes and the main diffuser cylinder, the ANSYS calculated maximum stress away from the end conditions closely follows that computed using the classical analysis value, p_r/t . Table 3 lists the classical maximum stress, the ANSYS computed stress away from end conditions, and the margin of safety for the cylindrical diffuser parts. The ANSYS values were determined graphically from Figures 3 through 7 and Figure 11.

Table 3 DIFFUSER STRESSES

<i>Model Part</i>	<i>Radius, r</i>	<i>Thickness, t</i>	$\sigma_{\text{classical}}$	σ_{ANSYS}	M.S. *
Cylinder 1	1.2275 in.	0.135 in.	63.5 ksi	67.1 ksi	1.2
Cylinder 2	0.935	0.105	62.2	66.8	1.2
Cylinder 3	0.75	0.135	38.8	34.8	3.3
Cylinder 4	0.75	0.135	38.8	33.4	3.5
Cylinder 5	0.75	0.135	38.8	37.2	3.0
Diffuser (1)	2.206	0.40	38.5	38.9	2.9
Diffuser (2)	1.3725	0.16	59.9	60.8	1.5
$p = 6980 \text{ psi constant}$		*Margin of Safety (yield) = $(150 \text{ ksi}/\sigma_{\text{ansys}}) - 1$			

The maximum stress values for the outlet cylinders are at the cylinder/sphere or cylinder/cylinder interfaces. Table 4 lists each outlet cylinder and the maximum stress in the cylinder. Again, these values were determined using Figures 3 through 7.

Table 4 MAXIMUM CYLINDER STRESSES

CYLINDER NO.	MAX STRESS
1	84.8 ksi
2	81.9
3	59.1
4	62.8
5	88.1

The highest stressed elements are in the region of the fillets around the interfaces. The thicknesses used here are thought to be conservative in view of the geometry shown on the drawings.

The classical solution for the maximum principal stress in a sphere under internal pressure is $pr/2t$. For the diffuser sphere, this value is

$$\sigma_{\text{sphere}} = \frac{6.98 \text{ ksi} (2.32 \text{ in.})}{2 (0.25 \text{ in.})} = 32.4 \text{ ksi}$$

The typical stress found in the sphere model is 47.6 ksi, which is higher than the classical solution. This is due to the outlet tube openings which require the surrounding sphere regions to carry a higher load. The maximum principal stress in the sphere is 92.6 ksi and occurs between cylinders 2 and 5.

The flange, the bracket, and the diffuser section are not critically stressed. The highest flange stress was located where the diffuser tube meets the flange, but the stress there was very low (1.3 ksi). The attach bracket is stressed highest at the diffuser tube connection. From Figure 10, it is found that this stress is 36.6 ksi. The conical diffuser section was modeled with two thicknesses. The diffuser plot, Figure 11, shows the division plane of these sections. The maximum principal stress is found to be in the thinner section. A hoop stress of 82.7 ksi occurs in this region.

6. SUMMARY

Under pressure loading, the diffuser exhibits highest stresses at the interface between the sphere and the outlet tubes. Close study of these areas shows that a conservative element thickness value has been used. Table 5 lists all the sections of the primary diffuser model and the minimum margins of safety. All margins of safety were positive.

Table 5 MARGINS OF SAFETY

<i>Model Part</i>	<i>Maximum Stress</i>	<i>M.S.*</i>
Cylinder 1	84.8 ksi	0.8
Cylinder 2	81.9	0.8
Cylinder 3	59.1	1.5
Cylinder 4	62.8	1.4
Cylinder 5	88.1	0.7
Sphere	92.6	0.6
Flange	1.3	high
Bracket	36.6	3.1
Diffuser (1)	82.7	0.8
Diffuser (2)	65.2	1.3

* M.S.(yield)=(150ksi/ σ_{max}) - 1

FLIGHT NOZZLE

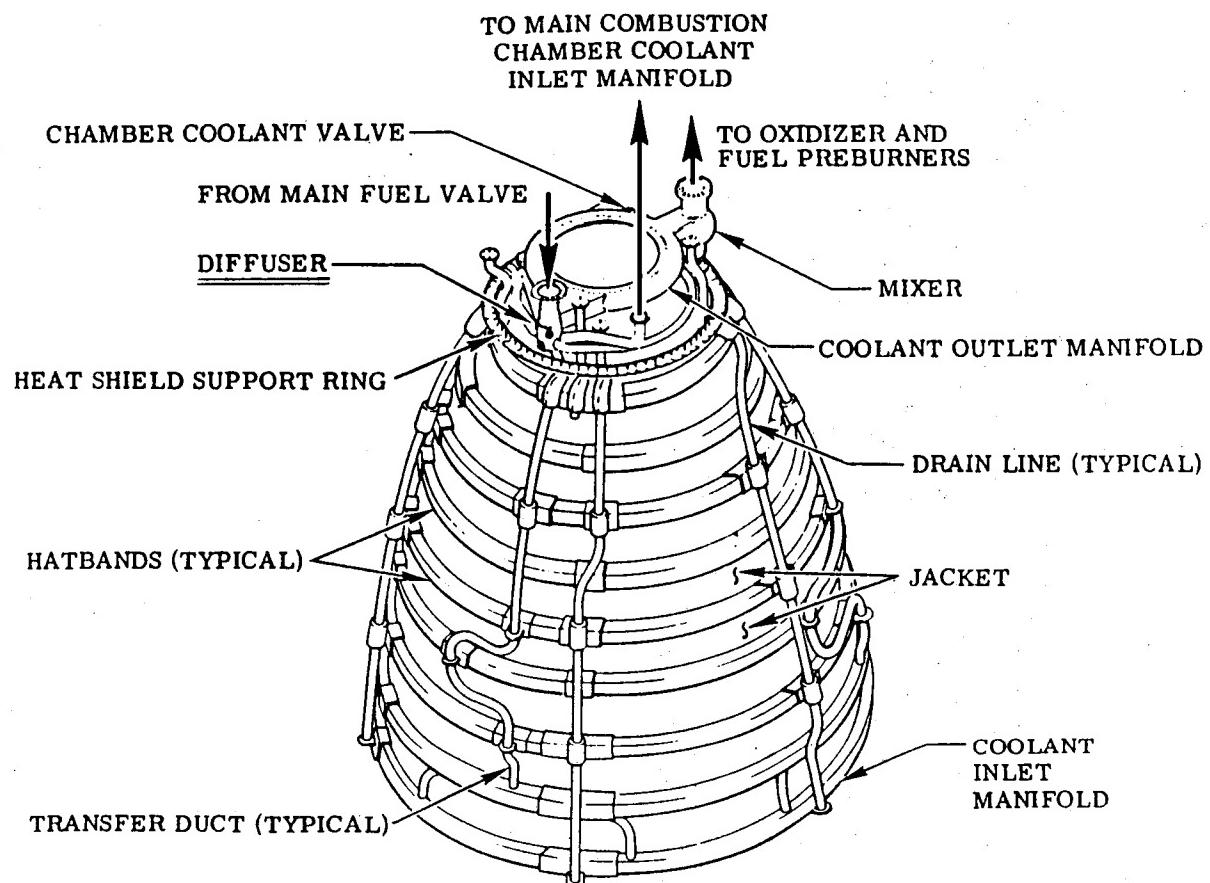


Figure 1 SSME Nozzle

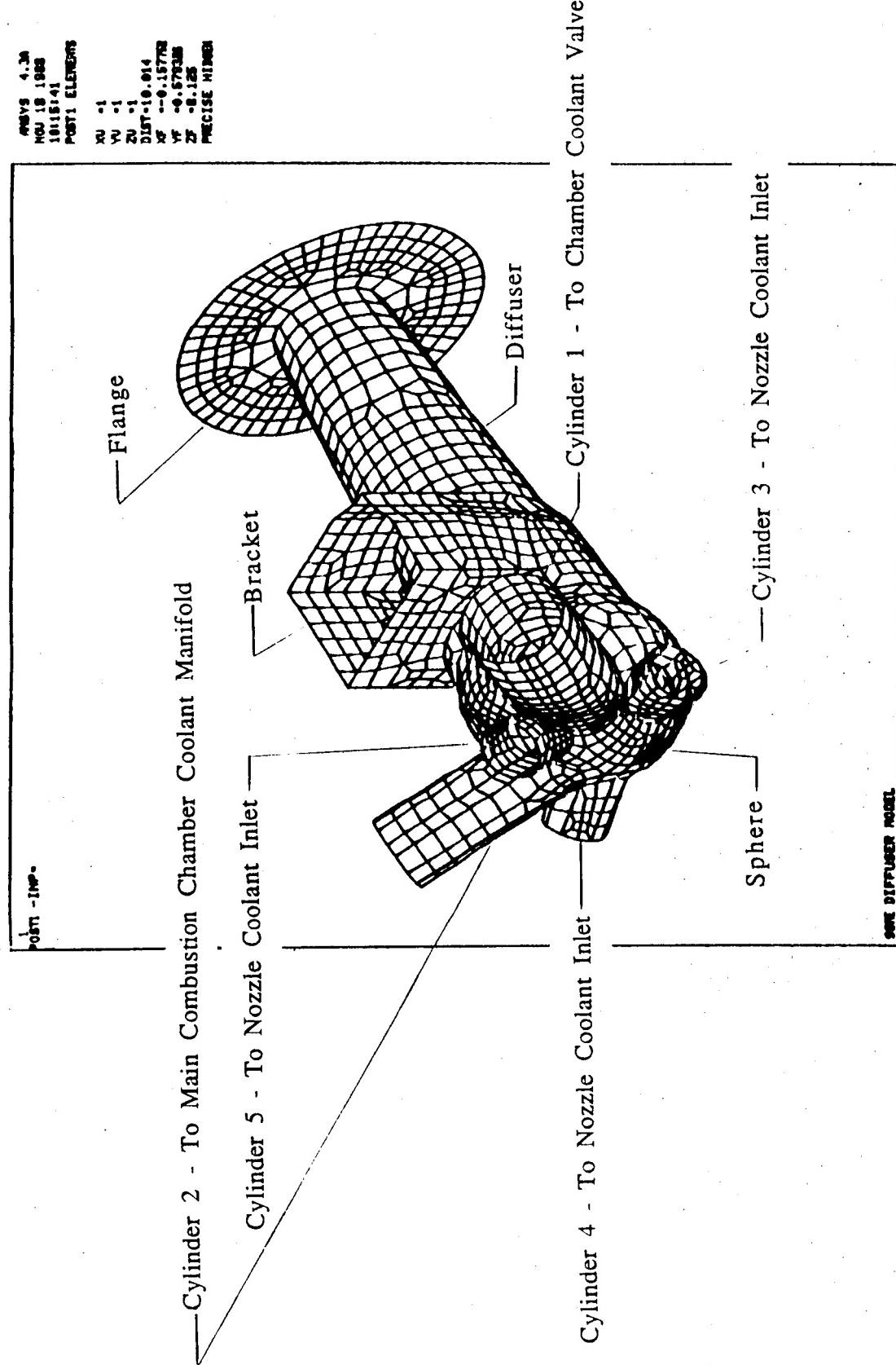


Figure 2 SSME Diffuser Model

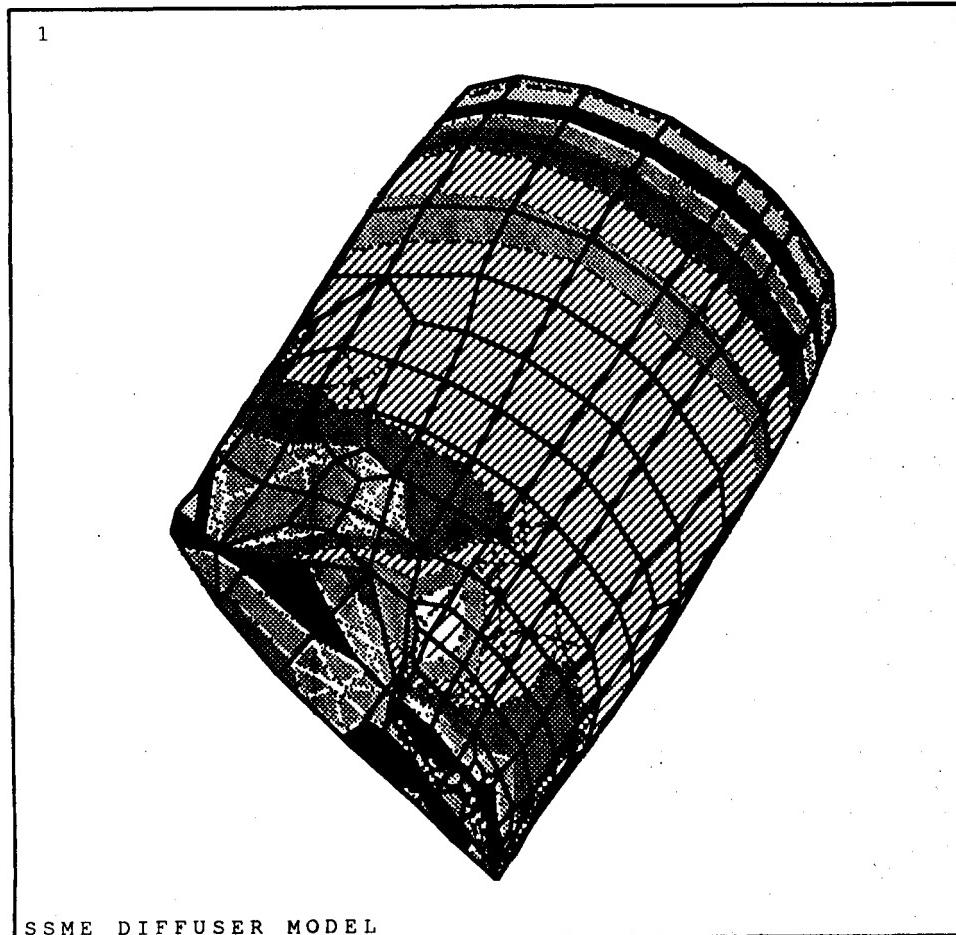


Figure 3 Cylinder 1 - To Chamber Coolant Valve

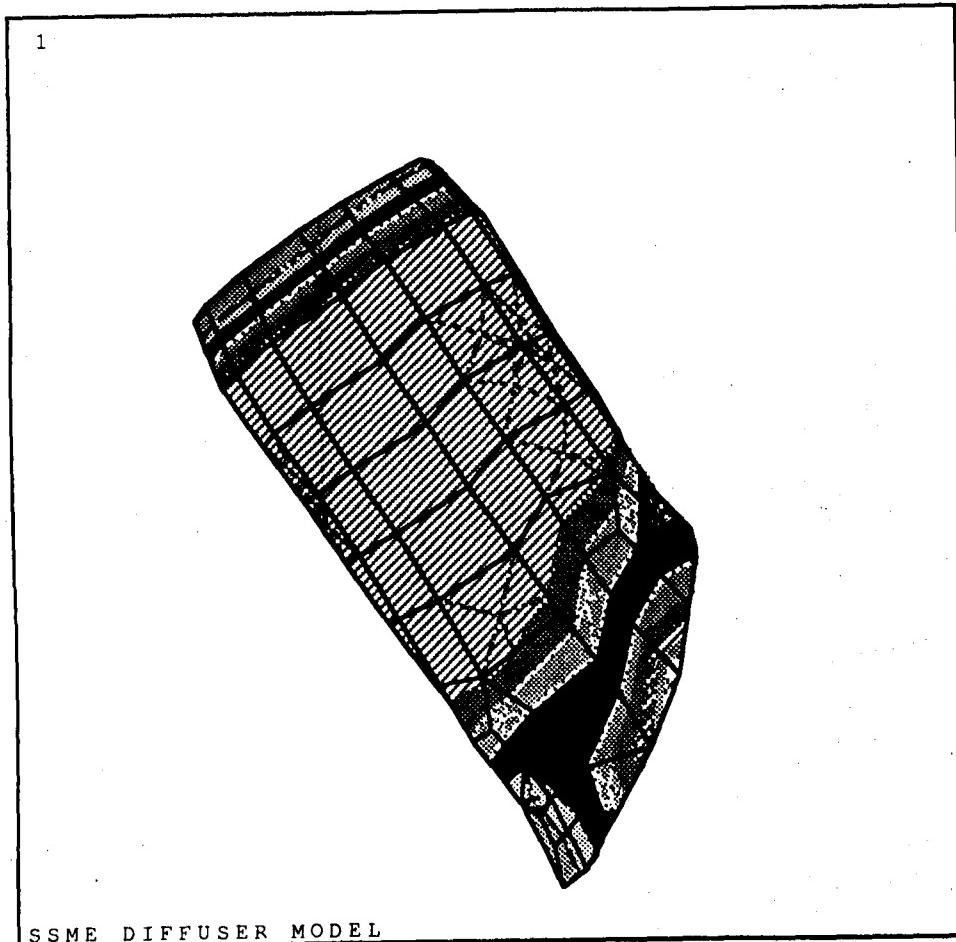


Figure 4 Cylinder 2 - To Main Combustion Chamber Coolant Manifold

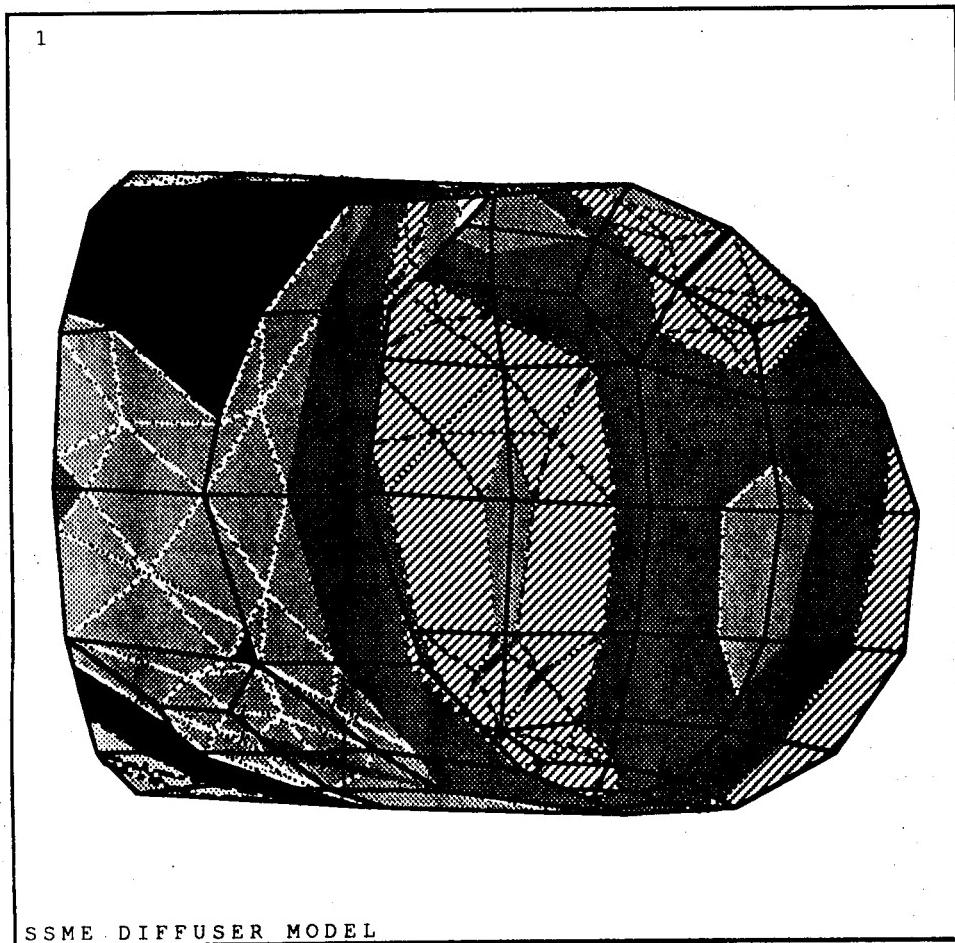


Figure 5 Cylinder 3 - To Nozzle Coolant Inlet



Figure 6 Cylinder 4 - To Nozzle Coolant Inlet

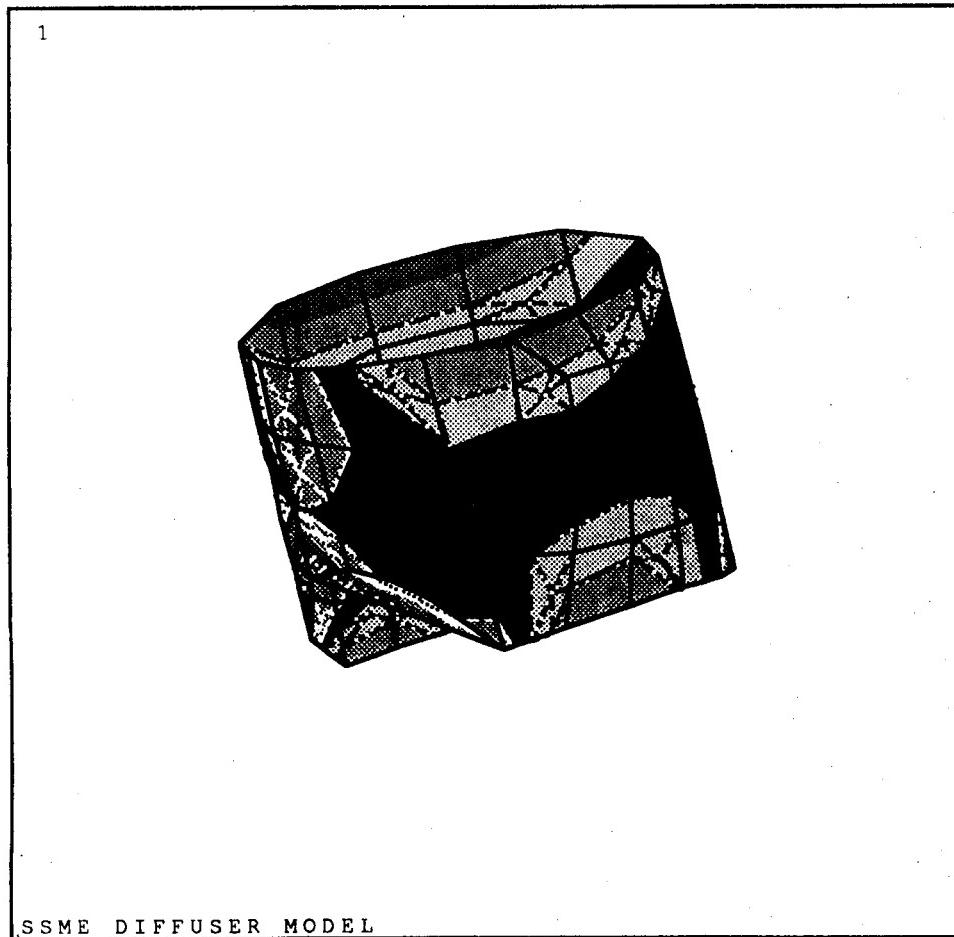


Figure 7 Cylinder 5 - To Nozzle Coolant Inlet

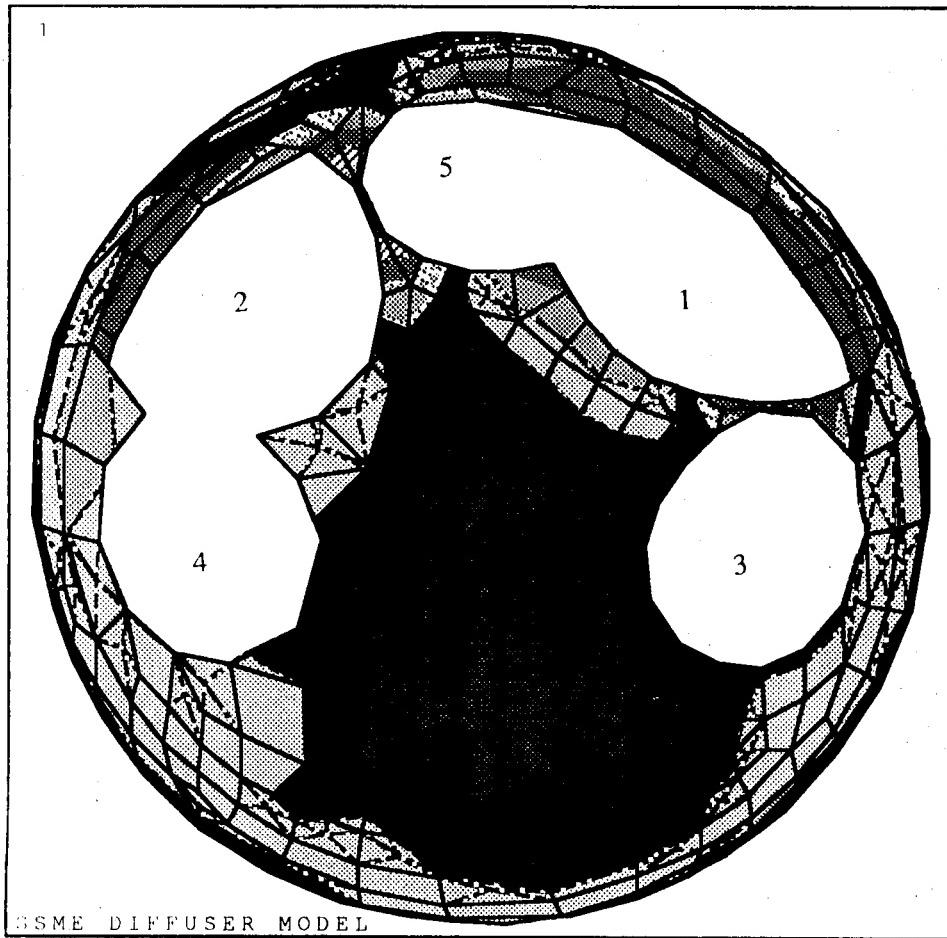


Figure 8 Sphere

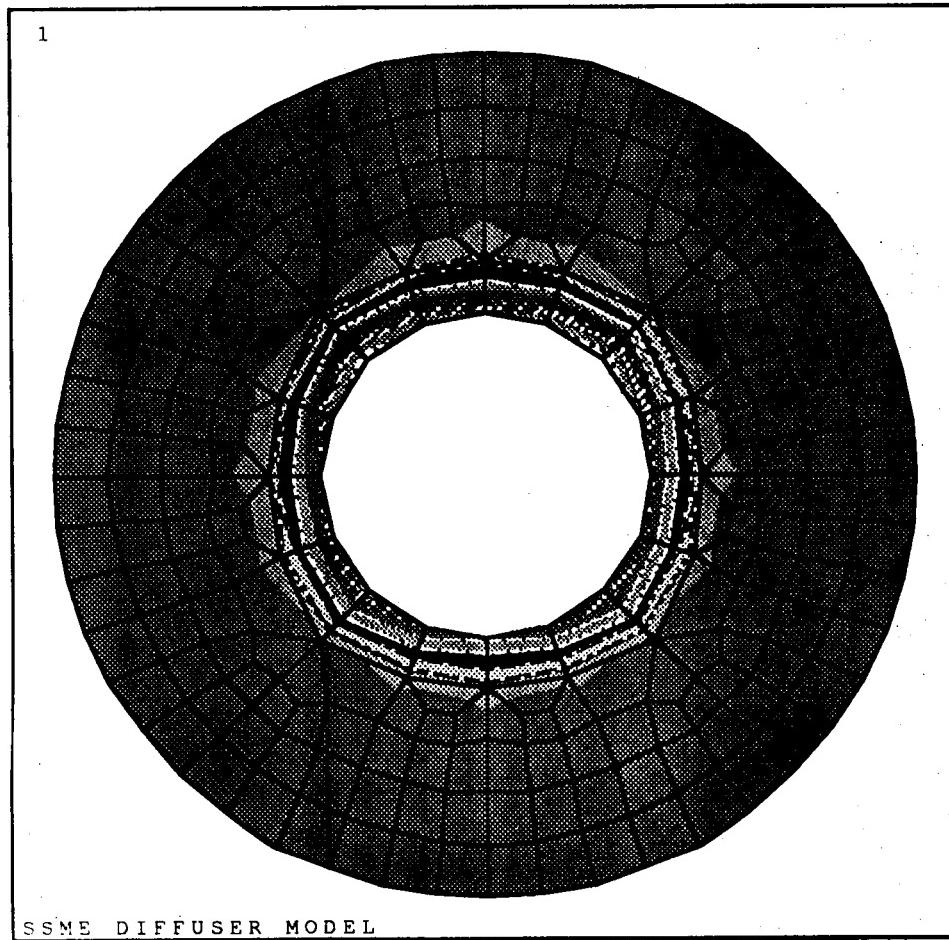


Figure 9 Flange

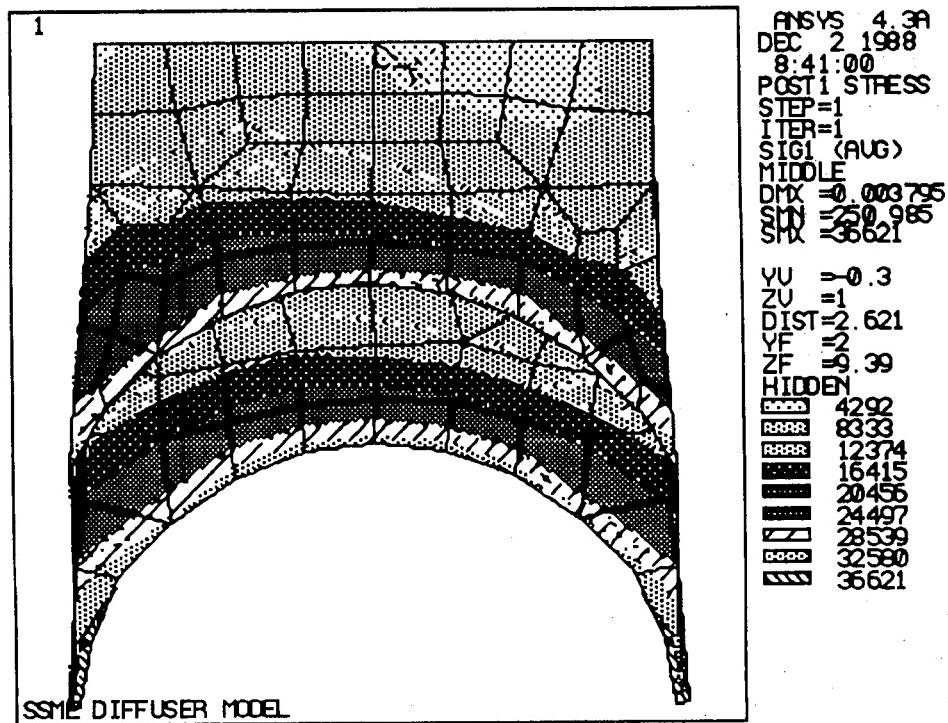


Figure 10 Bracket

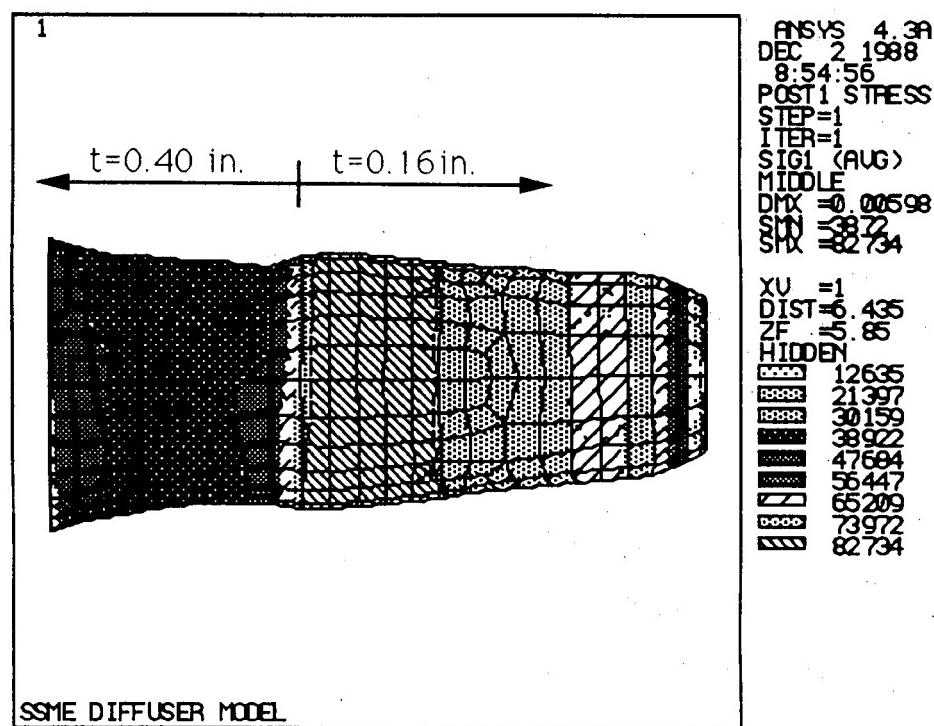


Figure 11 Diffuser

**Appendix A
MODEL LISTING**

```
/PREP7
/TITLE,SSME DIFFUSER MODEL
KAN, 0
/COM
/COM NODE DEFINITIONS
/COM
CSYS, 0
N, 1, 4.592424, 3.265935, 14.38999
N, 2, 3.680217, 4.087295, 15.61749
N, 3, 5.9436E-01, .9856241, 15.59799
N, 5, 2.245644, .6600218, 14.36129
N, 6, 3.7790E-01, 2.249012, 14.48189
N, 7, 2.768004, 4.908650, 14.38999
N, 8, 3.358682, 4.376803, 15.53869
N, 10, 7.5000E-01, 2.200552, 15.20819
N, 11, 1.647675, 1.967734, 13.16599
N, 12, 3.680217, 4.087295, 13.16249
N, 13, 4.52838, 3.323608, 14.84181
N, 14, 4.325248, 3.506510, 15.25794
N, 15, 4.015998, 3.78496, 15.53129
N, 16, 7.5332E-01, 1.145403, 15.59900
N, 17, .9148875, 1.307802, 15.60002
N, 18, 1.081763, 1.475533, 15.60107
N, 19, 1.256834, 1.6515, 15.60218
N, 20, 1.443258, 1.838879, 15.60336
N, 21, 1.644484, 2.041137, 15.60463
N, 22, 1.864195, 2.261972, 15.60602
N, 23, 2.106057, 2.505073, 15.60754
N, 24, 2.373186, 2.773571, 15.60923
N, 25, 2.66722, 3.069111, 15.61109
N, 26, 2.987065, 3.390594, 15.61311
N, 27, 3.327752, 3.733026, 15.61527
N, 28, .7647662, 8.1196E-01, 15.61645
N, 29, .9869544, 6.5345E-01, 15.58119
N, 32, 1.956589, .4977516, 14.89032
N, 33, 2.118064, .557513, 14.64427
N, 34, 2.588375, 1.040592, 14.36548
N, 35, 2.929580, 1.419474, 14.36966
N, 36, 3.268076, 1.795348, 14.37380
N, 37, 3.60325, 2.167533, 14.37790
N, 38, 3.935162, 2.536096, 14.38195
N, 39, 4.264501, 2.9018, 14.38598
N, 40, .7069704, 2.615197, 14.46924
N, 41, 1.038390, 2.983989, 14.45650
N, 42, 1.374104, 3.35756, 14.44359
N, 43, 1.715323, 3.737256, 14.43047
N, 44, 2.062216, 4.123267, 14.41713
N, 45, 2.413789, 4.514484, 14.40361
N, 46, 3.042753, 4.661270, 15.26804
N, 47, 2.833947, 4.849277, 14.8482
N, 48, 5.3955E-01, 1.50453, 15.45665
N, 49, 6.9517E-01, 1.663087, 15.46118
N, 50, .8559008, 1.826848, 15.46586
N, 51, 1.024526, 1.998652, 15.47076
N, 52, 1.204087, 2.181596, 15.47599
N, 53, 1.397905, 2.379067, 15.48163
N, 54, 1.609526, 2.594677, 15.48779
N, 55, 1.842483, 2.832025, 15.49457
N, 56, 2.099778, 3.094169, 15.50206
N, 57, 2.382986, 3.382716, 15.51030
```

N, 58, 2.691055, 3.69659, 15.51926
N, 59, 3.019199, 4.03092, 15.52881
N, 60, .5595216, 1.59597, 15.43009
N, 61, 1.990422, 2.325147, 13.1654
N, 62, 2.332082, 2.681436, 13.16481
N, 63, 2.671881, 3.035786, 13.16423
N, 64, 3.009556, 3.387919, 13.16365
N, 65, 3.345408, 3.738152, 13.16307
N, 66, 1.09499, 2.322406, 13.41086
N, 67, 6.4916E-01, 2.410308, 13.91146
N, 68, 3.344439, 4.389632, 13.24868
N, 69, 3.035189, 4.668079, 13.52202
N, 70, 2.832057, 4.850979, 13.93815
N, 71, 4.552166, 3.302191, 14.02934
N, 72, 4.422598, 3.418855, 13.67668
N, 73, 4.210311, 3.609999, 13.39102
N, 74, 3.948236, 3.845973, 13.21667
N, 75, 2.329370, .9034743, 13.90223
N, 76, 2.247548, 1.229944, 13.50171
N, 78, 3.521378, 4.230311, 15.59873
N, 80, 3.019258, 2.719878, 15.5414
N, 81, 3.271919, 2.427192, 15.3129
N, 82, 3.491027, 2.236122, 14.93498
N, 83, 1.907122, 1.764821, 15.59405
N, 84, 2.094489, 1.509823, 15.4888
N, 85, 2.211512, 1.203984, 15.28753
N, 86, 2.387236, .9765577, 14.88588
N, 87, .9646536, .9140276, 15.61048
N, 88, 1.082847, 1.073958, 15.61175
N, 89, 1.294617, 1.214298, 15.60752
N, 90, 1.491580, 1.39062, 15.60563
N, 91, 1.689188, 1.575456, 15.60009
N, 92, 1.863989, 1.352705, 15.51849
N, 93, 1.670828, 1.169949, 15.52772
N, 94, 1.471383, .9623107, 15.53273
N, 95, 1.418925, 7.2966E-01, 15.47789
N, 96, 1.248075, .8924957, 15.5729
N, 97, 1.302829, 7.6939E-01, 15.53144
N, 98, 1.111660, 7.8528E-01, 15.57915
N, 99, 1.233109, 6.9347E-01, 15.53053
N, 100, 1.950218, 8.3522E-01, 15.23251
N, 101, 1.825260, 1.001657, 15.40602
N, 102, 1.679674, .8448911, 15.40825
N, 103, 1.611645, .6655307, 15.35878
N, 104, 1.790594, .7675944, 15.30487
N, 105, 1.732188, 6.3129E-01, 15.25882
N, 106, 1.97272, 1.180935, 15.41304
N, 107, 2.105684, .762992, 15.01484
N, 108, .8880197, .9948931, 15.6171
N, 109, .8206599, 1.070368, 15.6104
N, 110, .8993205, 1.148532, 15.61081
N, 111, .9593375, 1.070132, 15.61728
N, 112, 7.9780E-01, .9335696, 15.61537
N, 113, 7.3874E-01, .9955103, 15.60968
N, 114, 2.681733, 2.414643, 15.5571
N, 115, 2.859869, 2.036208, 15.35007
N, 116, 3.133449, 1.845822, 14.94493
N, 117, 2.78191, 1.434260, 14.91412
N, 118, 2.56711, 1.59355, 15.28454
N, 119, 2.345850, 1.761514, 15.47877

N, 120, 2.140280, 1.986127, 15.58974
N, 121, 2.380905, 2.212445, 15.58208
N, 122, 2.538735, 1.994582, 15.48565
N, 123, 3.836899, 2.609778, 14.9197
N, 124, 3.632538, 2.792284, 15.29316
N, 125, 3.357693, 3.056352, 15.53149
N, 126, 3.693925, 3.41016, 15.52579
N, 127, 3.978660, 3.151674, 15.27633
N, 128, 4.178349, 2.973279, 14.89680
N, 129, .851618, 2.025405, 15.38154
N, 130, 2.51, 4.467460, 14.87846
N, 131, 2.191082, 4.10021, 14.89749
N, 132, 1.901613, 3.755490, 14.93136
N, 133, 1.699399, 3.456487, 15.02196
N, 134, 1.491549, 3.19339, 15.05733
N, 135, 1.280312, 2.939716, 15.07825
N, 136, 1.073325, 2.701059, 15.08787
N, 137, .9144146, 2.44373, 15.15756
N, 138, 1.038946, 2.310176, 15.34097
N, 139, 1.221539, 2.55792, 15.3159
N, 140, 1.424967, 2.797612, 15.30823
N, 141, 1.641039, 3.051176, 15.3028
N, 142, 1.8706, 3.323183, 15.29106
N, 143, 2.115465, 3.625395, 15.27023
N, 144, 2.401277, 3.955605, 15.26142
N, 145, 2.714469, 4.304596, 15.26063
N, 146, 1.177408, 3.025776, 14.81737
N, 147, 1.393807, 3.283039, 14.78198
N, 148, 1.586178, 3.507160, 14.76008
N, 149, .761336, 2.597774, 14.74609
N, 150, .8251278, 2.536597, 14.96594
N, 151, 1.057938, 2.842054, 14.89701
N, 152, .9398364, 2.784375, 14.77043
N, 153, .9410187, 2.678550, 14.94607
N, 154, .6067918, 2.425158, 14.74813
N, 155, 7.1566E-01, 2.397848, 14.98477
N, 156, 6.6803E-01, 1.719718, 15.42761
N, 157, .8087414, 1.869213, 15.43069
N, 158, 7.2294E-01, 1.751606, 15.44078
N, 159, 2.696238, 4.308609, 13.53606
N, 160, 2.365814, 3.952431, 13.54349
N, 161, 2.051282, 3.608036, 13.54688
N, 162, 1.762747, 3.294158, 13.5514
N, 163, 1.500458, 3.063159, 13.59542
N, 164, 1.223378, 2.785214, 13.621
N, 165, .8992956, 2.729416, 13.98878
N, 166, 2.501265, 4.466946, 13.91492
N, 167, 2.171351, 4.097272, 13.91016
N, 168, 1.354748, 3.284720, 14.09419
N, 169, 1.425977, 3.211284, 13.82537
N, 170, 1.866274, 3.74841, 13.89552
N, 171, 1.639894, 3.450742, 13.8281
N, 172, 1.553014, 3.506012, 14.0975
N, 173, 1.119323, 3.01649, 14.07374
N, 174, 1.246094, 3.013346, 13.82805
N, 175, 2.975509, 4.064379, 13.27379
N, 176, 2.631234, 3.718533, 13.28384
N, 177, 2.290986, 3.365347, 13.29286
N, 178, 1.921517, 2.999396, 13.30908
N, 179, 1.472889, 2.711580, 13.39672

N, 180, 1.720929, 2.614952, 13.25749
N, 181, 1.623317, 2.932101, 13.42391
N, 182, 1.370737, 2.472410, 13.34004
N, 183, 1.565047, 2.36481, 13.23707
N, 184, 2.530089, 1.522466, 13.5177
N, 185, 2.837462, 1.826956, 13.5431
N, 186, 3.151934, 2.120193, 13.58167
N, 187, 3.4606, 2.42786, 13.61156
N, 188, 3.773985, 2.751486, 13.63254
N, 189, 4.093983, 3.085042, 13.6513
N, 190, 2.619926, 1.239397, 13.88768
N, 191, 4.219205, 2.958507, 13.98197
N, 192, 3.894742, 2.609726, 13.95777
N, 193, 3.573757, 2.262465, 13.93848
N, 194, 3.252874, 1.920471, 13.91958
N, 195, 2.933429, 1.580293, 13.89830
N, 196, 2.326114, 1.874446, 13.25903
N, 197, 3.901417, 3.264513, 13.3934
N, 198, 3.652181, 3.48209, 13.22521
N, 199, 3.589927, 2.934567, 13.38616
N, 200, 3.342517, 3.144208, 13.22386
N, 201, 3.285273, 2.629198, 13.37123
N, 202, 2.99032, 2.365572, 13.34228
N, 203, 2.654421, 2.157244, 13.28282
N, 204, 3.045754, 2.838098, 13.21856
N, 205, 2.811693, 2.608139, 13.21175
N, 206, 2.84455, 3.556558, 15.58785
N, 207, 2.532679, 3.241669, 15.58258
N, 208, 2.244669, 2.950497, 15.57778
N, 209, 1.981844, 2.684689, 15.57341
N, 210, 1.743069, 2.443178, 15.56946
N, 211, 1.525696, 2.22331, 15.56585
N, 212, 1.326764, 2.021384, 15.56068
N, 213, 1.142225, 1.834371, 15.55663
N, 214, .9688232, 1.658708, 15.55282
N, 215, 8.0316E-01, 1.491109, 15.54912
N, 216, 6.4118E-01, 1.328123, 15.54531
N, 217, 3.176139, 3.889578, 15.59303
N, 218, -6.584E-01, 1.486289, 15.29029
N, 219, -3.879545, 3.967891, 15.32779
N, 220, -3.783857, 4.090345, 15.03339
N, 221, -.7980206, 1.77775, 14.97659
N, 222, -2.011776, 1.514606, 13.81359
N, 223, -4.344344, 3.372977, 13.81259
N, 224, -1.360164, 2.8602E-01, 15.46019
N, 225, -4.672339, 2.953159, 15.50959
N, 228, -4.907927, 2.651603, 14.85039
N, 229, -1.060963, 1.796494, 15.29498
N, 230, -1.463614, 2.106699, 15.29967
N, 231, -1.866265, 2.416904, 15.30435
N, 232, -2.268915, 2.727109, 15.30904
N, 233, -2.671566, 3.037314, 15.31373
N, 234, -3.074217, 3.347518, 15.31842
N, 235, -3.476867, 3.657723, 15.3231
N, 236, -1.171267, 2.06682, 14.98369
N, 237, -1.544499, 2.355891, 14.99079
N, 238, -1.91773, 2.644963, 14.99789
N, 239, -2.290962, 2.934034, 15.00499
N, 240, -2.664194, 3.223105, 15.01209
N, 241, -3.037425, 3.512176, 15.01919

N, 242, -3.410657, 3.801247, 15.02629
N, 246, -3.763664, 4.116209, 14.60664
N, 247, -3.868669, 3.981804, 14.19546
N, 248, -4.087880, 3.701228, 13.90204
N, 249, -2.400539, 1.824337, 13.81343
N, 250, -2.789299, 2.134066, 13.81326
N, 251, -3.178058, 2.443794, 13.81309
N, 252, -3.566818, 2.753522, 13.81293
N, 253, -3.955578, 3.06325, 13.81276
N, 254, -.9761512, 4.0157E-01, 15.64328
N, 255, -.6800905, .7181343, 15.67421
N, 256, -5.993E-01, 1.123032, 15.53263
N, 257, -1.72819, .5823637, 15.46568
N, 258, -2.096211, .8787106, 15.47117
N, 259, -2.464232, 1.175058, 15.47666
N, 260, -2.832253, 1.471404, 15.48215
N, 261, -3.200274, 1.767751, 15.48764
N, 262, -3.568295, 2.064098, 15.49313
N, 263, -3.936316, 2.360445, 15.49861
N, 264, -4.304337, 2.656792, 15.5041
N, 265, -4.123602, 3.6555, 15.62295
N, 266, -4.399051, 3.302952, 15.68154
N, 267, -2.416873, .707028, 14.8617
N, 268, -2.832047, 1.031128, 14.85982
N, 269, -3.247221, 1.355228, 14.85793
N, 270, -3.662395, 1.679328, 14.85605
N, 271, -4.077569, 2.003428, 14.85416
N, 272, -4.492743, 2.327528, 14.85228
N, 273, -4.836620, 2.742889, 15.21104
N, 275, -4.858656, 2.714682, 14.35903
N, 276, -4.641637, 2.992452, 13.95671
N, 277, -3.395290, 3.815037, 14.55779
N, 278, -3.023133, 3.519567, 14.53815
N, 279, -2.649728, 3.224915, 14.52322
N, 280, -2.271003, 2.921939, 14.50578
N, 281, -1.852980, 2.58529, 14.48102
N, 282, -1.573148, 2.268333, 14.29528
N, 283, -1.311895, 2.20102, 14.61496
N, 284, -1.555352, 2.399224, 14.6787
N, 285, -1.8955, 2.163288, 13.98322
N, 286, -3.678898, 3.433980, 13.92381
N, 287, -3.49424, 3.681546, 14.1894
N, 288, -3.294164, 3.140974, 13.92707
N, 289, -3.121390, 3.383576, 14.18266
N, 290, -2.924910, 2.845060, 13.92388
N, 291, -2.755918, 3.087324, 14.17182
N, 292, -2.407189, 2.793864, 14.15056
N, 293, -2.585171, 2.562555, 13.91653
N, 294, -2.098371, 2.498987, 14.10373
N, 295, -2.328535, 2.337328, 13.90618
N, 296, -3.745726, 3.332129, 15.63073
N, 297, -4.023903, 2.995526, 15.6797
N, 298, -3.35853, 3.019758, 15.63335
N, 299, -3.646499, 2.690226, 15.67906
N, 300, -2.967682, 2.709143, 15.63475
N, 301, -3.267248, 2.385169, 15.67776
N, 302, -2.573383, 2.394314, 15.63654
N, 303, -2.886515, 2.077199, 15.67585
N, 304, -2.170420, 2.063779, 15.64071
N, 305, -2.505157, 1.761547, 15.67290

N, 306, -1.736875, 1.682314, 15.65206
N, 307, -2.131442, 1.433790, 15.66694
N, 308, -1.412109, .828516, 15.65972
N, 309, -1.358370, 1.172963, 15.68162
N, 310, -1.280651, 1.483403, 15.60587
N, 311, -1.819503, 1.116219, 15.65462
N, 312, -1.638249, 1.323832, 15.68519
N, 313, -.9067824, .8998451, 15.67362
N, 314, -1.10247, 1.056015, 15.67307
N, 315, -1.178334, .8693821, 15.6848
N, 316, -1.020423, 7.2360E-01, 15.68362
N, 317, -.9663979, 1.281822, 15.59034
N, 318, -.8241475, 1.101567, 15.61449
N, 319, -4.439087, 2.436599, 15.21460
N, 320, -4.039955, 2.124746, 15.21458
N, 321, -3.625660, 1.802127, 15.21595
N, 322, -3.152873, 1.441289, 15.22698
N, 323, -2.741452, 1.064304, 15.14342
N, 324, -2.351232, 7.4727E-01, 15.12254
N, 325, -2.263149, 8.2102E-01, 15.31502
N, 326, -2.58969, 1.088427, 15.32746
N, 327, -2.86419, 1.326150, 15.35100
N, 328, -1.987993, .6046161, 15.31359
N, 329, -2.571233, 1.054353, 14.1924
N, 330, -4.445622, 2.406883, 14.33745
N, 331, -4.26196, 2.65828, 13.97745
N, 332, -4.042134, 2.093938, 14.33352
N, 333, -3.872627, 2.344454, 13.98259
N, 334, -3.646749, 1.786538, 14.33092
N, 335, -3.48924, 2.043332, 13.98344
N, 336, -3.131117, 1.767237, 13.98146
N, 337, -3.267151, 1.495226, 14.32189
N, 338, -2.914922, 1.240826, 14.29180
N, 339, -2.854120, 1.560109, 13.97651
N, 340, 2.820252, .4399999, 15.38009
N, 342, 2.626137, -.3142171, 16.10449
N, 343, .9635600, -3.385E-01, 15.65839
N, 344, 3.014329, -3.250E-01, 14.65579
N, 345, 2.274169, -.3061865, 14.45729
N, 346, 2.820252, -1.060007, 15.38009
N, 347, 1.659228, -1.052125, 14.95679
N, 348, 2.550238, .4366656, 15.34285
N, 349, 2.268503, 4.3319E-01, 15.30399
N, 350, 1.968744, 4.2949E-01, 15.26265
N, 351, 2.724955, 3.4341E-01, 15.73571
N, 352, 2.650525, 5.3957E-02, 16.01348
N, 353, 2.273623, -.3193675, 16.0099
N, 354, 1.929207, -3.244E-01, 15.91749
N, 355, 1.59724, -3.293E-01, 15.82842
N, 356, 1.276964, -3.340E-01, 15.74248
N, 357, 1.406650, 3.1803E-01, 15.42705
N, 358, 1.195930, 1.3444E-01, 15.57064
N, 359, 1.044418, -8.997E-02, 15.64649
N, 360, 2.659644, -3.160E-01, 14.56067
N, 361, 2.218296, 1.3134E-01, 14.59106
N, 362, 1.980494, .3949101, 14.88950
N, 363, 2.916147, 3.4209E-01, 15.02219
N, 364, 2.990816, 4.8066E-02, 14.7435
N, 365, 2.223235, -1.055953, 15.16243
N, 367, 2.137327, -7.082E-01, 14.53900

N, 368, 2.987610, -6.900E-01, 14.75545
N, 369, 2.91303, -.9687809, 15.03379
N, 370, 2.651658, -.681765, 16.00924
N, 371, 2.726243, -.9661890, 15.73090
N, 373, 1.165975, -.9110505, 15.40124
N, 374, 1.402343, -1.038455, 15.18655
N, 375, 1.943879, -1.795E-02, 15.85964
N, 376, 1.97427, 1.8195E-01, 15.73836
N, 377, 1.969157, .3311007, 15.55508
N, 378, 1.318356, -6.857E-02, 15.71206
N, 379, 1.624405, 8.2588E-03, 15.76225
N, 380, 1.520223, .1923797, 15.60770
N, 381, 1.723345, .2981843, 15.54004
N, 382, 1.770977, 1.7255E-01, 15.69200
N, 383, 1.342728, 9.2869E-02, 15.63833
N, 384, 2.483214, 3.5416E-01, 15.65016
N, 385, 2.231457, .3466871, 15.59689
N, 386, 2.268276, -3.863E-03, 15.94022
N, 387, 2.226979, 1.9747E-01, 15.79268
N, 388, 2.449584, 2.1470E-01, 15.83429
N, 389, 2.573201, 1.1285E-01, 14.67369
N, 390, 2.382309, 3.8153E-01, 14.96304
N, 391, 2.432083, 4.2625E-01, 15.12724
N, 392, 2.636368, 4.1918E-01, 15.15022
N, 393, 2.697879, -.9508567, 14.94383
N, 394, 2.478445, -.9386601, 14.86564
N, 395, 2.256835, -.9190578, 14.77645
N, 396, 2.533767, -.7221603, 14.65564
N, 397, 2.762349, -8.382E-01, 14.81357
N, 398, 2.593479, -.840868, 14.7711
N, 399, 2.358800, -1.016269, 14.99623
N, 400, 2.629470, -1.024456, 15.09270
N, 401, 2.094484, -1.007350, 14.89933
N, 402, 2.088665, -.9998072, 15.48793
N, 403, 1.955144, -.8687894, 15.66549
N, 404, 1.940184, -.6414119, 15.84094
N, 405, 1.62842, -6.330E-01, 15.76122
N, 406, 1.3245, -6.440E-01, 15.67482
N, 407, 1.419852, -.8540652, 15.53775
N, 408, 1.671865, -.8364868, 15.62400
N, 409, 1.727653, -1.047047, 15.23086
N, 410, 1.734105, -1.005892, 15.37805
N, 411, 1.694953, -.9464126, 15.48987
N, 412, 1.530338, -.9715306, 15.40025
N, 413, 1.614612, -1.005449, 15.34712
N, 414, 1.581089, -1.032107, 15.25655
N, 415, 1.904058, -1.005055, 15.42564
N, 416, 1.948676, -1.047925, 15.2843
N, 417, 1.849952, -.9458264, 15.53246
N, 418, 2.296576, -.9717516, 15.60517
N, 419, 2.50926, -.9625052, 15.6789
N, 420, 2.271907, -6.437E-01, 15.92827
N, 421, 2.244102, -.8439745, 15.76935
N, 422, 2.46525, -.8417879, 15.83094
N, 423, 2.354992, -1.037745, 15.44357
N, 424, 2.558168, -1.033438, 15.51356
N, 425, -.9648023, -.3306833, 15.65899
N, 426, -2.62614, -3.117E-01, 16.10449
N, 427, -2.706676, 2.9825E-01, 15.80389
N, 430, -2.820252, -1.060007, 15.38009

N, 431, -2.264699, -.3700878, 14.45719
N, 432, -3.013621, -3.756E-01, 14.65839
N, 433, -2.00169, .3829293, 14.86359
N, 434, -2.890219, 3.8960E-01, 15.11889
N, 435, -1.949409, .4401408, 15.13859
N, 436, -2.820256, 4.3998E-01, 15.38009
N, 437, -1.443505, -.325206, 15.78736
N, 438, -1.880864, -3.202E-01, 15.90464
N, 439, -2.268448, -3.158E-01, 16.00858
N, 440, -2.645743, 1.8490E-02, 16.03135
N, 441, -2.091029, 2.9265E-01, 15.64675
N, 442, -1.112727, 2.6621E-02, 15.61645
N, 443, -1.940549, -1.057946, 15.19249
N, 444, -2.380399, -1.058973, 15.28629
N, 445, -2.645087, -6.333E-01, 16.0338
N, 446, -2.713633, -.9367412, 15.778
N, 448, -2.639164, -.3728063, 14.55779
N, 450, -1.824795, -.9998379, 14.80839
N, 451, -2.950423, -.8663558, 14.89427
N, 452, -2.445964, .3862513, 14.99124
N, 453, -2.234329, 9.0604E-02, 14.56676
N, 454, -2.987385, 7.1427E-02, 14.75628
N, 455, -2.384829, .4400723, 15.25934
N, 456, -1.931816, 1.0285E-01, 15.78919
N, 457, -1.869407, -8.970E-02, 15.86708
N, 458, -1.499770, -5.855E-02, 15.75717
N, 459, -1.592412, 1.1904E-01, 15.6869
N, 460, -2.192387, 5.6049E-02, 15.88862
N, 461, -2.422471, 3.6483E-02, 15.96133
N, 462, -2.181178, -1.126E-01, 15.95745
N, 463, -2.40651, -.1229183, 16.02052
N, 464, -2.243133, .1805361, 15.81245
N, 465, -2.454147, 1.7782E-01, 15.87147
N, 466, -2.270747, -6.775E-01, 15.9088
N, 467, -2.315603, -.937241, 15.66995
N, 468, -1.937628, -.9397972, 15.5646
N, 469, -1.890195, -.7002715, 15.79385
N, 470, -1.508617, -7.375E-01, 15.66554
N, 471, -1.639293, -.9443721, 15.47740
N, 472, -2.446391, -.8892566, 14.78715
N, 473, -2.077007, -1.011797, 14.90765
N, 474, -2.592960, .0835791, 14.65806
N, 476, -6.195E-01, 2.679879, 15.96679
N, 478, -.7499917, 2.891258, 15.60069
N, 480, 3.9551E-01, 2.572644, 16.15259
N, 482, .7499967, 2.891257, 15.60069
N, 484, 3.8067E-01, 3.214366, 15.04109
N, 485, -6.192E-01, 1.798419, 15.45844
N, 486, -6.193E-01, 2.092239, 15.62789
N, 487, -.619376, 2.386059, 15.79734
N, 488, -7.500E-01, 2.067984, 15.13592
N, 489, -7.500E-01, 2.342409, 15.29084
N, 490, -.7499757, 2.616834, 15.44577
N, 491, 3.8798E-01, 1.556098, 15.57096
N, 492, 3.8960E-01, 1.775647, 15.69658
N, 493, 3.9140E-01, 2.017408, 15.8349
N, 494, .3933801, 2.285594, 15.98835
N, 495, .1580706, 1.285549, 15.51999
N, 496, -.1079664, 1.278666, 15.52665
N, 497, -3.877E-01, 1.350149, 15.45214

N, 498, 3.3562E-02, 2.516635, 16.24954
N, 499, -3.235E-01, 2.552932, 16.18667
N, 500, 7.5000E-01, 2.424563, 15.33549
N, 501, 7.5000E-01, 2.65473, 15.46628
N, 503, .6747371, 2.727533, 15.88429
N, 504, .3787519, 2.548574, 14.65542
N, 505, .3796751, 2.869723, 14.84145
N, 506, .7120352, 3.009056, 15.39664
N, 507, .5869614, 3.124697, 15.19635
N, 512, 1.6514E-01, 2.307925, 14.41934
N, 513, 9.9522E-02, 3.262944, 14.95695
N, 514, -.1848357, 3.254693, 14.97123
N, 515, -.4724045, 3.182523, 15.09623
N, 516, -.6810858, 3.048282, 15.32873
N, 517, 7.5477E-03, 2.006039, 15.95534
N, 518, -3.070E-01, 2.02874, 15.89206
N, 519, 1.6263E-01, 1.671676, 15.74244
N, 520, -4.820E-02, 1.641194, 15.74319
N, 521, -2.456E-01, 1.641342, 15.69657
N, 522, -.4277011, 1.647928, 15.59308
N, 523, 1.5781E-01, 1.484636, 15.63540
N, 524, -6.088E-02, 1.464308, 15.63961
N, 525, -.2340661, 1.478904, 15.60727
N, 526, -2.613E-01, 1.823619, 15.79655
N, 527, -.0369198, 1.815740, 15.84437
N, 528, 1.6742E-01, 1.823255, 15.82774
N, 529, -.441373, 1.842067, 15.69448
N, 530, 1.9863E-02, 2.250115, 16.09579
N, 531, -3.172E-01, 2.281667, 16.03296
N, 532, .6648372, 2.478498, 15.76276
N, 533, .6778991, 2.296690, 15.62738
N, 534, .6507494, 2.109959, 15.5794
N, 535, .623975, 1.908762, 15.51337
N, 536, .5200606, 1.844631, 15.62001
N, 537, .5400994, 2.040141, 15.71034
N, 538, 5.5507E-01, 2.201925, 15.78466
N, 539, 4.9433E-01, 1.663976, 15.54302
N, 540, 7.1701E-01, 2.099549, 15.39879
N, 541, 7.2032E-01, 2.206904, 15.44536
N, 542, 7.0655E-01, 2.768623, 15.24058
N, 543, .5836578, 2.843855, 15.02991
N, 544, .7050115, 2.550153, 15.10945
N, 545, .5818, 2.59474, 14.88348
N, 547, .5810257, 2.418942, 14.7809
N, 548, -4.537E-01, 2.966873, 14.95507
N, 549, -.40806, 2.804258, 14.82490
N, 550, -3.845E-01, 2.634294, 14.7091
N, 551, -.3565523, 2.452579, 14.58658
N, 552, -2.447E-01, 3.050963, 14.875
N, 553, -.2339204, 2.872177, 14.76762
N, 554, -2.032E-01, 2.693734, 14.6526
N, 555, -1.491E-01, 2.509372, 14.53166
N, 556, 7.6736E-02, 2.54006, 14.53697
N, 557, -5.489E-02, 2.919157, 14.75334
N, 558, 1.3180E-01, 2.962926, 14.7901
N, 559, -1.484E-02, 2.734295, 14.64462
N, 560, 1.5105E-01, 2.760268, 14.67668
N, 561, -7.443E-02, 3.084076, 14.85080
N, 562, -.6825958, 2.247919, 14.87024
N, 563, -6.719E-01, 2.500647, 14.99116

N, 564, -.6411225, 2.789867, 15.09265
N, 565, -.539830, 2.365188, 14.69755
N, 566, -5.413E-01, 2.562746, 14.81334
N, 567, -5.367E-01, 2.724303, 14.90112
N, 568, -2.199999, 0., 11.69999
N, 569, 0., -2.199999, 11.69999
N, 570, -2.307369, -1.109E-02, 12.16689
N, 571, -8.290E-03, -2.308719, 12.17076
N, 572, -1.532853, 1.578086, 11.69999
N, 573, -1.607219, 1.657349, 12.17069
N, 574, -.5203641, 2.137571, 11.69999
N, 575, -5.244E-01, 2.244363, 12.15959
N, 578, 1.619449, 1.645209, 12.17009
N, 579, 2.199999, 0., 11.69999
N, 580, 2.307389, -3.686E-03, 12.16689
N, 581, .4862939, -2.145581, 11.69999
N, 582, .5239116, -2.244453, 12.15959
N, 586, 1.0145E-01, -1.337879, 15.49199
N, 587, -1.500687, -1.056932, 15.09869
N, 594, 1.595209, 4.7463E-01, 15.25819
N, 595, 1.655133, .4256125, 15.21939
N, 597, 3.8644E-01, 1.348524, 15.45219
N, 598, -.6190145, 1.504599, 15.28899
N, 602, -.7498958, 1.793563, 14.98099
N, 606, -1.728243, -1.361319, 11.69999
N, 610, -5.178E-01, -2.24573, 12.15921
N, 611, -1.004057, -2.086653, 12.1906
N, 612, -1.438714, -1.806809, 12.17359
N, 613, -1.802911, -1.442696, 12.17170
N, 614, -2.077255, -1.007041, 12.17002
N, 615, -2.248772, -.5224278, 12.17052
N, 616, -1.828288, 1.223667, 11.69999
N, 618, -2.161932, .4074906, 11.69999
N, 619, -2.263859, .4511158, 12.16964
N, 620, -2.12853, .8949395, 12.17152
N, 621, -1.906325, 1.302802, 12.1716
N, 622, -1.284250, 1.918906, 12.17151
N, 623, -.9193034, 2.119317, 12.17465
N, 625, -6.393E-02, 2.307084, 12.16857
N, 626, .3977166, 2.266242, 12.14882
N, 627, .8450105, 2.145649, 12.16318
N, 628, 1.258173, 1.936297, 12.17194
N, 629, 2.041503, 8.1992E-01, 11.69999
N, 630, 1.912327, 1.293514, 12.17083
N, 631, 2.130403, .8905249, 12.17158
N, 632, 2.26361, 4.5240E-01, 12.16969
N, 638, 2.250369, -5.154E-01, 12.17044
N, 639, 2.080334, -1.000727, 12.17010
N, 640, 1.807187, -1.437364, 12.17178
N, 641, 1.443908, -1.802623, 12.17354
N, 642, 1.009898, -2.083823, 12.19060
N, 643, -2.43664, -3.201E-01, 14.05159
N, 644, -2.539579, -2.569E-01, 13.5986
N, 645, -2.557028, -1.820E-01, 13.11652
N, 646, -2.479474, -9.861E-02, 12.63012
N, 648, -2.268083, .8189346, 14.18889
N, 649, -1.826044, 1.694102, 12.66712
N, 650, -1.969198, 1.649798, 13.22709
N, 651, 1.8838E-01, -1.683873, 15.23219
N, 652, .2742037, -1.995564, 14.89577

N, 653, .3539493, -2.250184, 14.48976
N, 654, 4.2248E-01, -2.427564, 14.03031
N, 655, .4754098, -2.51437, 13.54115
N, 656, .5100527, -2.507036, 13.04973
N, 657, .5257703, -2.412183, 12.58229
N, 658, -7.544E-01, -1.263847, 15.4067
N, 659, -2.102862, -.7602774, 14.56677
N, 661, 2.468456, -7.037E-02, 12.58709
N, 662, 2.554232, -1.378E-01, 13.0505
N, 663, 2.551396, -.2017664, 13.53307
N, 664, 2.456468, -2.588E-01, 14.00943
N, 665, 1.906977, -.9529098, 14.73534
N, 667, 1.387974, -1.151310, 15.13112
N, 668, 1.048985, -1.240285, 15.29157
N, 669, 6.1637E-01, -1.30959, 15.42368
N, 670, -.6213064, -.3477504, 15.7694
N, 671, -.2673282, -3.580E-01, 15.83086
N, 672, 7.4382E-02, -.3610849, 15.8434
N, 673, .3927696, -3.583E-01, 15.81441
N, 674, 6.8745E-01, -3.506E-01, 15.75143
N, 675, .9947825, -.6667616, 15.5739
N, 678, -1.101036, -.8455569, 15.46289
N, 679, 1.668822, 1.849064, 12.66684
N, 682, 2.006900, 1.604089, 13.23588
N, 683, 1.780816, .4727893, 15.09178
N, 686, 1.62378, 4.5156E-01, 15.24016
N, 694, 1.27537, .5341798, 15.46626
N, 695, 4.7580E-01, 1.16506, 15.54111
N, 699, -6.370E-01, 1.496483, 15.28987
N, 706, -6.954E-01, 1.99745, 14.76002
N, 707, -5.382E-01, 2.164008, 14.57758
N, 708, -3.172E-01, 2.27208, 14.45846
N, 709, -7.278E-02, 2.31782, 14.40762
N, 711, -7.713E-01, 1.7864, 14.97892
N, 712, -1.67588, 1.848990, 13.9145
N, 713, -1.323984, 2.006212, 14.20923
N, 714, -1.023873, 1.972302, 14.59109
N, 715, -.8751084, 2.002687, 11.94840
N, 716, -1.219584, 1.812915, 11.94753
N, 717, .8046481, 2.026309, 11.93944
N, 718, 1.195375, 1.825438, 11.94260
N, 719, 3.9451E-01, 2.141727, 11.93578
N, 720, 2.01688, .8338744, 11.94355
N, 721, 2.141453, .4209102, 11.94346
N, 722, 1.805738, 1.225795, 11.94337
N, 723, -2.428153, .240728, 14.10427
N, 724, -2.532747, 3.0138E-01, 13.60999
N, 725, -2.538588, 3.5558E-01, 13.12506
N, 726, -2.449663, 4.0950E-01, 12.64371
N, 727, -2.233202, 1.258532, 13.13303
N, 728, -2.423414, 8.3609E-01, 13.13007
N, 729, -2.326475, .8729511, 12.65015
N, 730, -2.121645, 1.296644, 12.65544
N, 731, -2.420170, .8048178, 13.61209
N, 732, -2.258408, 1.203627, 13.51954
N, 733, -1.85073, -1.321074, 14.49535
N, 734, -1.855165, -1.520147, 14.21976
N, 735, -1.808726, -1.705869, 13.94485
N, 736, -1.63864, -1.950554, 13.63256
N, 737, -1.607967, -1.995674, 13.1268

N, 738, -1.547746, -1.947299, 12.65745
N, 739, -1.000304, -1.650746, 14.99602
N, 740, -1.067858, -1.895553, 14.66559
N, 741, -1.102998, -2.076897, 14.3335
N, 742, -1.143604, -2.200308, 13.97271
N, 743, -1.19872, -2.25733, 13.56137
N, 744, -1.211024, -2.257892, 13.10967
N, 745, -1.149523, -2.205610, 12.65633
N, 746, -1.1813623, -2.545848, 13.59509
N, 747, -.6926138, -2.465580, 13.49895
N, 748, -.2112393, -2.458581, 14.01474
N, 749, -7.151E-01, -2.374321, 13.97091
N, 750, -2.383E-01, -2.297563, 14.42405
N, 751, -.7098564, -2.226177, 14.36728
N, 752, -.6945449, -2.029713, 14.71484
N, 753, -2.612E-01, -2.077682, 14.78812
N, 754, -6.546E-01, -1.798611, 15.01368
N, 755, -.2736323, -1.827687, 15.08499
N, 756, -5.781E-01, -1.584284, 15.238
N, 757, -2.732E-01, -1.616236, 15.27843
N, 758, -.7248384, -2.373064, 12.6353
N, 759, -.7897675, -2.433278, 13.06567
N, 760, -4.430E-01, -2.511676, 12.9932
N, 761, -.14374, -2.547768, 12.99835
N, 762, .1611723, -2.547826, 13.00770
N, 763, -.3365871, -2.457076, 12.62925
N, 764, 1.9888E-01, -2.485945, 12.68133
N, 765, -7.206E-02, -2.494754, 12.68902
N, 766, .2393381, -2.40525, 12.42916
N, 767, 4.2728E-02, -2.417569, 12.43265
N, 768, -1.700E-01, -2.564058, 13.28867
N, 769, -4.465E-01, -2.529863, 13.26358
N, 770, 1.3907E-01, -2.565623, 13.284
N, 771, -1.477808, -1.980116, 14.00246
N, 772, -1.653040, -1.804844, 14.08027
N, 773, -1.42089, -1.887292, 14.30879
N, 774, -1.652584, -1.700514, 14.28793
N, 775, -1.646165, -1.540066, 14.53284
N, 776, -1.399423, -1.720084, 14.59688
N, 777, -1.405538, -1.475896, 14.86366
N, 778, -1.639107, -1.35803, 14.73895
N, 779, -2.136823, -1.255309, 12.62204
N, 780, -2.172860, -1.344484, 13.02693
N, 781, -2.204183, -1.315568, 13.39859
N, 782, -2.237623, -1.183741, 13.73762
N, 783, -2.27037, -.9180325, 14.07630
N, 784, -1.97285, -1.634302, 13.49120
N, 785, -1.930714, -1.679797, 13.07765
N, 786, -1.881384, -1.619593, 12.64008
N, 787, -2.035316, -1.47435, 13.83228
N, 788, -2.06012, -1.28543, 14.13752
N, 789, -2.018854, -1.142655, 14.40406
N, 790, -2.365007, -1.003449, 13.31928
N, 791, -2.480652, -6.641E-01, 13.25
N, 792, -2.472769, -6.379E-01, 13.57976
N, 793, -2.372563, -.9309093, 13.6239
N, 794, -2.437647, -6.135E-01, 13.829
N, 795, -2.36819, -8.323E-01, 13.84541
N, 796, -2.308553, -.8978319, 12.62012
N, 797, -2.339753, -1.014306, 12.9866

N, 798, -2.404443, -6.507E-01, 12.67096
N, 799, -2.456690, -4.026E-01, 12.6644
N, 800, -2.444347, -.7142087, 12.96018
N, 801, -2.499365, -.4519834, 12.91761
N, 802, -2.359120, -.5.183E-01, 12.42492
N, 803, -2.391467, -3.351E-01, 12.42374
N, 804, 2.215493, -1.131522, 12.65929
N, 805, 2.281533, -1.16385, 13.10726
N, 806, 2.286624, -1.149129, 13.51972
N, 807, 2.238456, -1.109473, 13.89852
N, 808, 2.138428, -1.048868, 14.26293
N, 809, 1.566786, -1.961639, 12.75635
N, 810, 1.755413, -1.872919, 13.19704
N, 811, 1.822069, -1.789611, 13.57298
N, 812, 1.832446, -1.688929, 13.92236
N, 813, 1.811376, -1.544547, 14.26826
N, 814, 1.899279, -1.248597, 14.49726
N, 815, 1.086216, -2.234388, 12.647
N, 816, 7.4471E-01, -1.922948, 14.83298
N, 817, 1.023998, -1.809762, 14.80885
N, 818, 1.254040, -1.703055, 14.75788
N, 819, 1.463489, -1.566797, 14.71580
N, 820, 1.658362, -1.369173, 14.70494
N, 821, .9018122, -2.103592, 14.46765
N, 822, 1.270257, -1.982790, 14.32619
N, 823, 1.553370, -1.801989, 14.26890
N, 824, .9031035, -2.286764, 14.04448
N, 825, 1.267018, -2.122406, 14.00089
N, 826, 1.567818, -1.92588, 13.95828
N, 827, 1.245863, -2.21763, 13.65817
N, 828, 1.191975, -2.275721, 13.33679
N, 829, 1.074126, -2.317129, 13.02214
N, 830, .9018934, -2.379369, 13.6539
N, 831, .8904926, -2.409211, 13.35175
N, 832, 1.549004, -2.023897, 13.62642
N, 833, 1.488784, -2.093974, 13.30111
N, 834, 1.393849, -2.141007, 13.03033
N, 835, 1.287378, -1.837029, 14.55376
N, 836, 1.081105, -1.926532, 14.61229
N, 837, 1.501634, -1.69636, 14.51059
N, 838, 1.6669, -1.546173, 14.49674
N, 839, 1.149045, -1.410212, 15.11392
N, 840, 1.202369, -1.563379, 14.94630
N, 841, .9680288, -1.642056, 15.0232
N, 842, .6620916, -1.671346, 15.13519
N, 843, .9286185, -1.470894, 15.19077
N, 844, 1.373884, -1.326509, 15.01863
N, 845, 1.399539, -1.461645, 14.88242
N, 846, 1.528342, -1.254076, 14.94098
N, 847, 1.533051, -1.365804, 14.84372
N, 848, 2.042107, -1.55037, 13.13715
N, 849, 2.072715, -1.499530, 13.53093
N, 850, 2.055999, -1.428446, 13.87605
N, 851, 2.015511, -1.353785, 14.13873
N, 852, 1.94849, -1.559589, 12.69005
N, 853, 2.394416, -6.507E-01, 12.63605
N, 854, 2.460027, -7.081E-01, 13.08735
N, 855, 2.453325, -7.283E-01, 13.52145
N, 856, 2.385442, -.7286024, 13.91743
N, 857, 2.289968, -.71778, 14.2178

N, 858, 1.056387, -1.053885, 15.39119
N, 859, 7.2815E-01, -.9572312, 15.57012
N, 860, 3.8347E-01, -.9364522, 15.66177
N, 861, 8.0124E-02, -.8896070, 15.70922
N, 862, -2.491E-01, -.7707914, 15.7383
N, 863, -.6813076, -8.238E-01, 15.637
N, 864, 1.3318E-01, -5.478E-01, 15.80677
N, 865, 1.3167E-01, -7.195E-01, 15.76342
N, 866, 3.7402E-01, -7.520E-01, 15.72799
N, 867, .3914746, -5.673E-01, 15.77500
N, 868, 6.6581E-01, -5.948E-01, 15.70908
N, 869, 5.8936E-01, -.7718113, 15.67882
N, 870, -6.495E-02, -.5304941, 15.81353
N, 871, -6.076E-02, -6.761E-01, 15.778
N, 872, 5.4217E-02, -1.109487, 15.61693
N, 873, 3.5141E-01, -1.124804, 15.58349
N, 874, -3.164E-01, -1.060413, 15.61881
N, 875, 1.282259, -1.084296, 15.24413
N, 876, 2.418834, 2.6434E-01, 14.12356
N, 877, 2.388582, .912137, 13.05165
N, 878, 2.453578, .4674329, 12.69886
N, 879, 2.107712, 1.3923, 12.83553
N, 880, 2.041832, 1.367846, 12.55325
N, 881, 1.983226, 1.331185, 12.35340
N, 882, 2.241127, .9186758, 12.4418
N, 883, 2.317589, .9273252, 12.69132
N, 884, 2.156759, 1.145613, 12.5032
N, 885, 2.102086, 1.126118, 12.34239
N, 886, 2.205803, 1.158703, 12.67635
N, 887, 2.305406, 6.9457E-01, 12.40254
N, 888, 2.369508, 6.9972E-01, 12.59727
N, 889, 1.865075, 1.585537, 12.52232
N, 890, 1.835699, 1.524677, 12.34823
N, 891, 2.517143, 4.5167E-01, 13.53914
N, 892, 2.546043, 2.7205E-01, 13.0951
N, 893, 1.805794, .4430607, 15.0735
N, 894, .6556145, 6.1555E-01, 15.70689
N, 895, 5.3791E-01, 3.9096E-01, 15.78176
N, 896, 4.3589E-01, 1.5018E-01, 15.82801
N, 897, 3.7419E-01, -9.645E-02, 15.84018
N, 898, 1.7708E-01, 2.4201E-01, 15.8521
N, 899, -1.175E-01, 3.5117E-01, 15.84268
N, 900, -.4325134, 4.9008E-01, 15.7849
N, 901, -2.558E-01, .7738657, 15.73656
N, 902, -1.562E-01, 1.056047, 15.6371
N, 903, 4.3281E-01, 7.7653E-01, 15.71048
N, 904, 2.9371E-01, 5.1675E-01, 15.79977
N, 905, 1.8753E-01, .9881340, 15.6641
N, 906, 2.7015E-02, .6574771, 15.78356
N, 907, -4.483E-01, 1.18351, 15.53575
N, 908, -.4613634, .8918368, 15.66484
N, 909, 9.6071E-02, -5.012E-02, 15.8672
N, 910, -.2413762, 1.5065E-02, 15.85823
N, 911, -.6768148, 1.1712E-01, 15.77565
N, 912, .7662938, 2.8128E-01, 15.73600
N, 913, .9860085, 1.8725E-01, 15.66505
N, 914, 1.138736, 3.8055E-01, 15.57129
N, 915, .8868998, 4.8271E-01, 15.6625
N, 916, 1.435267, .4345874, 15.38653
N, 917, .8430516, -4.728E-02, 15.72656

N, 918, .6543075, 6.4144E-02, 15.78379
N, 919, .5719799, -.1276151, 15.80145
N, 920, -.8996586, 2.287807, 12.55464
N, 921, -.9044096, 2.384206, 12.9868
N, 922, -1.066287, 2.337276, 13.36443
N, 923, -1.154216, 2.242658, 13.78655
N, 924, .9549336, 2.369716, 13.03400
N, 925, .7627754, 2.370877, 12.67109
N, 926, -.5198241, 2.399608, 12.54203
N, 927, -.5233775, 2.485957, 12.9151
N, 928, -4.939E-01, 2.520756, 13.23721
N, 929, -.5232914, 2.499303, 13.58248
N, 930, -.4323621, 2.460373, 13.89919
N, 931, -3.889E-01, 2.372093, 14.20612
N, 932, -.9321715, 2.260515, 14.0894
N, 933, -6.921E-01, 2.239784, 14.35042
N, 934, -.7998293, 2.43458, 13.48116
N, 935, -.8664614, 2.377067, 13.74497
N, 936, -.8203874, 2.348686, 13.94135
N, 937, -6.595E-01, 2.38531, 13.99028
N, 938, -.6844309, 2.430654, 13.77219
N, 939, -.7346308, 2.460722, 13.23452
N, 940, -.7229187, 2.032779, 14.6955
N, 941, -.8884843, 2.061004, 14.5495
N, 942, -1.050873, 2.128706, 14.28197
N, 943, 2.1026E-01, 2.449953, 14.04627
N, 944, 1.4576E-01, 2.527562, 13.73915
N, 945, 9.4136E-02, 2.560827, 13.48173
N, 946, 1.2235E-01, 2.565368, 13.21645
N, 947, 1.9102E-01, 2.533077, 12.91744
N, 948, .3039386, 2.444617, 12.56868
N, 949, -1.026E-01, 2.432693, 14.1193
N, 950, -1.146E-01, 2.452769, 12.54311
N, 951, -1.610E-01, 2.532182, 12.89772
N, 952, -.1838289, 2.561162, 13.21849
N, 953, -1.929E-01, 2.552214, 13.52501
N, 954, -1.480E-01, 2.51127, 13.81998
N, 955, 3.0812E-01, 2.546607, 13.44718
N, 956, 4.3681E-01, 2.51227, 13.61066
N, 957, .7053088, 2.463806, 13.12344
N, 958, 5.1107E-01, 2.498593, 12.98966
N, 959, 3.9732E-01, 2.537349, 13.24977
N, 960, .6551976, 2.483895, 13.34773
N, 961, 1.233135, 2.144788, 12.60907
N, 962, 1.272997, 2.201613, 12.93479
N, 963, -1.554924, 2.032222, 13.53175
N, 964, -1.276268, 2.188366, 12.87032
N, 965, -1.557789, 1.972907, 12.77184
N, 966, -1.389186, 2.158864, 13.2074
N, 967, -1.643305, 1.960713, 13.06750
N, 968, -1.236728, 2.113050, 12.51962
N, 969, -1.471149, 1.943002, 12.48629
N, 970, 1.372499, 0., 0.
N, 972, 0., -3.749998, 0.
N, 973, 3.749998, 0., 0.
N, 974, 0., 1.372499, 0.
N, 975, 0., 3.749998, 0.
N, 977, -3.749998, 0., 0.
N, 978, 1.276134, -.5052097, 0.
N, 979, .9705034, -.9705034, 0.

N, 981, 0., -1.847999, 0.
N, 982, 0., -2.323499, 0.
N, 983, 0., -2.798999, 0.
N, 984, 0., -3.274498, 0.
N, 985, 4.5136E-01, -3.722736, 0.
N, 986, .9151953, -3.636606, 0.
N, 987, 1.380354, -3.486704, 0.
N, 988, 1.833905, -3.270974, 0.
N, 989, 2.262114, -2.990873, 0.
N, 990, 2.651649, -2.651649, 0.
N, 991, 2.990873, -2.262114, 0.
N, 992, 3.270974, -1.833905, 0.
N, 993, 3.486704, -1.380354, 0.
N, 994, 3.636606, -.9151953, 0.
N, 995, 3.722736, -4.514E-01, 0.
N, 996, 1.847999, 0., 0.
N, 997, 2.323499, 0., 0.
N, 998, 2.798999, 0., 0.
N, 999, 3.274498, 0., 0.
N, 1000, .5052097, 1.276134, 0.
N, 1002, 1.276134, .5052097, 0.
N, 1003, 0., 1.847999, 0.
N, 1004, 0., 2.323499, 0.
N, 1005, 0., 2.798999, 0.
N, 1006, 0., 3.274498, 0.
N, 1007, 3.722736, 4.5136E-01, 0.
N, 1008, 3.636606, .9151953, 0.
N, 1009, 3.486704, 1.380354, 0.
N, 1010, 3.270974, 1.833905, 0.
N, 1011, 2.990873, 2.262114, 0.
N, 1012, 2.651649, 2.651649, 0.
N, 1013, 2.262114, 2.990873, 0.
N, 1014, 1.833905, 3.270974, 0.
N, 1015, 1.380354, 3.486704, 0.
N, 1016, .9151953, 3.636606, 0.
N, 1017, 4.5136E-01, 3.722736, 0.
N, 1018, -.5052097, 1.276134, 0.
N, 1021, -1.847999, 0., 0.
N, 1022, -2.323499, 0., 0.
N, 1023, -2.798999, 0., 0.
N, 1024, -3.274498, 0., 0.
N, 1025, -4.514E-01, 3.722736, 0.
N, 1026, -.9151953, 3.636606, 0.
N, 1027, -1.380354, 3.486704, 0.
N, 1028, -1.833905, 3.270974, 0.
N, 1029, -2.262114, 2.990873, 0.
N, 1030, -2.651649, 2.651649, 0.
N, 1031, -2.990873, 2.262114, 0.
N, 1032, -3.270974, 1.833905, 0.
N, 1033, -3.486704, 1.380354, 0.
N, 1034, -3.636606, .9151953, 0.
N, 1035, -3.722736, 4.5136E-01, 0.
N, 1036, -1.276134, -.5052097, 0.
N, 1037, -.9705034, -.9705034, 0.
N, 1039, -3.722736, -4.514E-01, 0.
N, 1040, -3.636606, -.9151953, 0.
N, 1041, -3.486704, -1.380354, 0.
N, 1042, -3.270974, -1.833905, 0.
N, 1043, -2.990873, -2.262114, 0.
N, 1044, -2.651649, -2.651649, 0.

N, 1045, -2.262114, -2.990873, 0.
N, 1046, -1.833905, -3.270974, 0.
N, 1047, -1.380354, -3.486704, 0.
N, 1048, -.9151953, -3.636606, 0.
N, 1049, -4.514E-01, -3.722736, 0.
N, 1050, 2.32637, -2.326347, 0.
N, 1051, 2.045555, -2.045518, 0.
N, 1052, 1.788320, -1.788284, 0.
N, 1053, 1.431039, -1.431016, 0.
N, 1054, 6.8316E-01, -1.756962, 0.
N, 1055, .946774, -2.168621, 0.
N, 1056, 1.096033, -2.576739, 0.
N, 1057, 1.233665, -3.008898, 0.
N, 1058, .8215975, -3.146073, 0.
N, 1059, 4.0931E-01, -3.230826, 0.
N, 1060, .3644063, -2.780113, 0.
N, 1061, 7.2849E-01, -2.708236, 0.
N, 1062, .3201541, -2.382720, 0.
N, 1063, .63212, -2.330232, 0.
N, 1064, 2.8441E-01, -2.097357, 0.
N, 1065, .5332273, -2.061517, 0.
N, 1066, 2.00493, -2.604249, 0.
N, 1067, 1.637022, -2.826427, 0.
N, 1068, 1.475948, -2.421953, 0.
N, 1069, 1.794826, -2.273970, 0.
N, 1070, 1.376657, -2.011437, 0.
N, 1071, 1.653268, -2.024564, 0.
N, 1072, 1.75701, -.683178, 0.
N, 1073, 2.168749, -.9468544, 0.
N, 1074, 2.576867, -1.096115, 0.
N, 1075, 3.008955, -1.233694, 0.
N, 1076, 2.826449, -1.637009, 0.
N, 1077, 2.604309, -2.004949, 0.
N, 1078, 2.273943, -1.794735, 0.
N, 1079, 2.422135, -1.476075, 0.
N, 1080, 2.024515, -1.653153, 0.
N, 1081, 2.011610, -1.376775, 0.
N, 1082, 3.230848, -4.094E-01, 0.
N, 1083, 3.146134, -8.217E-01, 0.
N, 1084, 2.708314, -.728534, 0.
N, 1085, 2.78023, -3.646E-01, 0.
N, 1086, 2.33031, -.6321661, 0.
N, 1087, 2.382858, -3.203E-01, 0.
N, 1088, 2.061571, -5.333E-01, 0.
N, 1089, 2.097476, -2.846E-01, 0.
N, 1090, 2.32637, 2.326347, 2.7392E-10
N, 1091, 2.045555, 2.045518, 4.2268E-10
N, 1092, 1.788320, 1.788284, 4.1915E-10
N, 1093, 1.431039, 1.431016, 2.6311E-10
N, 1094, 6.8316E-01, 1.756962, 1.4715E-10
N, 1095, .946774, 2.168621, 2.6028E-10
N, 1096, 1.096033, 2.576739, 2.5340E-10
N, 1097, 1.233665, 3.008898, 1.5088E-10
N, 1098, .8215975, 3.146073, 1.0109E-10
N, 1099, 4.0931E-01, 3.230826, 5.1887E-11
N, 1100, .3644063, 2.780113, 9.0351E-11
N, 1101, 7.2849E-01, 2.708236, 1.6199E-10
N, 1102, .3201541, 2.382720, 9.9062E-11
N, 1103, .63212, 2.330232, 1.7056E-10
N, 1104, 2.8441E-01, 2.097357, 8.6656E-11

N, 1105, .5332273, 2.061517, 1.3479E-10
N, 1106, 2.00493, 2.604249, 2.3347E-10
N, 1107, 1.637022, 2.826427, 1.9128E-10
N, 1108, 1.475948, 2.421953, 3.1553E-10
N, 1109, 1.794826, 2.273970, 3.5368E-10
N, 1110, 1.376657, 2.011437, 3.2049E-10
N, 1111, 1.653268, 2.024564, 3.6444E-10
N, 1112, 1.75701, .683178, 1.6415E-10
N, 1113, 2.168749, .9468544, 2.914E-10
N, 1114, 2.576867, 1.096115, 2.8791E-10
N, 1115, 3.008955, 1.233694, 1.7724E-10
N, 1116, 2.826449, 1.637009, 2.1742E-10
N, 1117, 2.604309, 2.004949, 2.4173E-10
N, 1118, 2.273943, 1.794735, 3.8753E-10
N, 1119, 2.422136, 1.476075, 3.2120E-10
N, 1120, 2.024515, 1.653153, 3.9954E-10
N, 1121, 2.011610, 1.376775, 3.1882E-10
N, 1122, 3.230848, 4.0933E-01, 6.8819E-11
N, 1123, 3.146134, 8.2164E-01, 1.2264E-10
N, 1124, 2.708314, .728534, 1.9633E-10
N, 1125, 2.78023, 3.6451E-01, 9.8113E-11
N, 1126, 2.33031, .6321661, 2.0292E-10
N, 1127, 2.382858, 3.2028E-01, 1.0225E-10
N, 1128, 2.061571, 5.3326E-01, 1.5834E-10
N, 1129, 2.097476, 2.8452E-01, 8.6854E-11
N, 1130, -2.326347, 2.32637, 1.9293E-10
N, 1131, -2.045518, 2.045555, 2.9609E-10
N, 1132, -1.788284, 1.788320, 2.9424E-10
N, 1133, -1.431016, 1.431039, 1.8708E-10
N, 1134, -1.756962, 6.8316E-01, 1.2484E-10
N, 1135, -2.168621, .946774, 2.2841E-10
N, 1136, -2.576739, 1.096033, 2.2648E-10
N, 1137, -3.008898, 1.233665, 1.3646E-10
N, 1138, -3.146073, .8215975, 9.9499E-11
N, 1139, -3.230826, 4.0931E-01, 5.4153E-11
N, 1140, -2.780113, .3644063, 9.3029E-11
N, 1141, -2.708236, 7.2849E-01, 1.5436E-10
N, 1142, -2.382720, .3201541, 9.9195E-11
N, 1143, -2.330232, .63212, 1.5872E-10
N, 1144, -2.097357, 2.8441E-01, 8.4038E-11
N, 1145, -2.061517, .5332273, 1.2254E-10
N, 1146, -2.604249, 2.00493, 1.7810E-10
N, 1147, -2.826427, 1.637022, 1.5716E-10
N, 1148, -2.421953, 1.475948, 2.5420E-10
N, 1149, -2.273970, 1.794826, 2.6478E-10
N, 1150, -2.011437, 1.376657, 2.5010E-10
N, 1151, -2.024564, 1.653268, 2.6970E-10
N, 1152, -.683178, 1.75701, 9.8259E-11
N, 1153, -.9468544, 2.168749, 1.6706E-10
N, 1154, -1.096115, 2.576867, 1.6170E-10
N, 1155, -1.233694, 3.008955, 9.9042E-11
N, 1156, -1.637009, 2.826449, 1.3252E-10
N, 1157, -2.004949, 2.604309, 1.5823E-10
N, 1158, -1.794735, 2.273943, 2.5382E-10
N, 1159, -1.476075, 2.422136, 1.9882E-10
N, 1160, -1.653153, 2.024515, 2.6510E-10
N, 1161, -1.376775, 2.011610, 2.0451E-10
N, 1162, -4.094E-01, 3.230848, 3.3630E-11
N, 1163, -8.217E-01, 3.146134, 6.3808E-11
N, 1164, -.728534, 2.708314, 1.0375E-10

N, 1165, -3.646E-01, 2.78023, 5.0328E-11
N, 1166, -.6321661, 2.33031, 1.0990E-10
N, 1167, -3.203E-01, 2.382858, 5.4118E-11
N, 1168, -5.333E-01, 2.061571, 8.8134E-11
N, 1169, -2.846E-01, 2.097476, 4.7417E-11
N, 1170, -2.32661, -2.326591, -2.245E-10
N, 1171, -2.045925, -2.045895, -3.463E-10
N, 1172, -1.788687, -1.788657, -3.434E-10
N, 1173, -1.43127, -1.431252, -2.157E-10
N, 1174, -6.833E-01, -1.757105, -1.222E-10
N, 1175, -.9470267, -2.168878, -2.167E-10
N, 1176, -1.096282, -2.576991, -2.113E-10
N, 1177, -1.233814, -3.009049, -1.260E-10
N, 1178, -8.218E-01, -3.146179, -8.496E-11
N, 1179, -4.094E-01, -3.230881, -4.384E-11
N, 1180, -3.646E-01, -2.780209, -7.622E-11
N, 1181, -7.287E-01, -2.708403, -1.358E-10
N, 1182, -.3202569, -2.382824, -8.336E-11
N, 1183, -.6322906, -2.330406, -1.427E-10
N, 1184, -.2844947, -2.097447, -7.272E-11
N, 1185, -5.334E-01, -2.061652, -1.125E-10
N, 1186, -2.005143, -2.604465, -1.924E-10
N, 1187, -1.637202, -2.82661, -1.585E-10
N, 1188, -1.476242, -2.422252, -2.610E-10
N, 1189, -1.795144, -2.274294, -2.910E-10
N, 1190, -1.376952, -2.011736, -2.645E-10
N, 1191, -1.653594, -2.024896, -2.996E-10
N, 1192, -1.757145, -.6833146, -1.331E-10
N, 1193, -2.168983, -.9470927, -2.357E-10
N, 1194, -2.577097, -1.096349, -2.327E-10
N, 1195, -3.009096, -1.233838, -1.432E-10
N, 1196, -2.826629, -1.637192, -1.766E-10
N, 1197, -2.604514, -2.005158, -1.972E-10
N, 1198, -2.274272, -1.79507, -3.161E-10
N, 1199, -2.422402, -1.476346, -2.610E-10
N, 1200, -2.024856, -1.6535, -3.261E-10
N, 1201, -2.011878, -1.377048, -2.596E-10
N, 1202, -3.230900, -.4093745, -5.520E-11
N, 1203, -3.146229, -.8217354, -9.868E-11
N, 1204, -2.708467, -7.287E-01, -1.581E-10
N, 1205, -2.780306, -3.646E-01, -7.888E-11
N, 1206, -2.330470, -6.324E-01, -1.636E-10
N, 1207, -2.382937, -.3203559, -8.233E-11
N, 1208, -2.061697, -5.334E-01, -1.279E-10
N, 1209, -2.097544, -2.846E-01, -7.007E-11
N, 1210, 2.000004, 4., 11.01499
N, 1211, -1.999997, 4.000003, 11.01499
N, 1213, 0., 2.151549, 11.01499
N, 1215, 2.000004, 4., 7.764997
N, 1216, -1.999997, 4.000003, 7.764997
N, 1217, -2., 0., 7.764997
N, 1221, 2., 0., 7.764997
N, 1222, 2., 0., 8.872206
N, 1223, -2., 0., 8.872206
N, 1224, 1.499999, 3.999998, 11.01499
N, 1225, .9999995, 3.999998, 11.01499
N, 1226, 5.0000E-01, 3.999998, 11.01499
N, 1227, 0., 3.999998, 11.01499
N, 1228, -5.0000E-01, 3.999998, 11.01499
N, 1229, -.9999995, 3.999998, 11.01499

N, 1230, -1.499999, 3.999998, 11.01499
N, 1231, -2., 3.465055, 11.01500
N, 1232, -2., 2.930112, 11.01499
N, 1233, -2., 2.395169, 11.01499
N, 1234, -2., 1.860226, 11.01499
N, 1235, -2., 1.325283, 11.01499
N, 1236, -1.759694, 1.237596, 11.01499
N, 1240, .5084414, 2.089330, 11.01500
N, 1244, 2., 1.325282, 11.01500
N, 1245, 2., 1.860225, 11.01499
N, 1246, 2., 2.395168, 11.01499
N, 1247, 2., 2.930112, 11.01499
N, 1248, 2., 3.465055, 11.01499
N, 1249, 1.499999, 3.999998, 7.764997
N, 1250, .9999995, 3.999998, 7.764997
N, 1251, 5.0000E-01, 3.999998, 7.764997
N, 1252, 0., 3.999998, 7.764997
N, 1253, -5.000E-01, 3.999998, 7.764997
N, 1254, -.9999995, 3.999998, 7.764997
N, 1255, -1.499999, 3.999998, 7.764997
N, 1256, -2., .4999997, 7.764997
N, 1257, -2., .9999994, 7.764997
N, 1258, -2., 1.499999, 7.764997
N, 1259, -2., 2., 7.764997
N, 1260, -2., 2.499999, 7.764997
N, 1261, -2., 2.999998, 7.764997
N, 1262, -2., 3.499998, 7.764997
N, 1263, -1.863581, .4689925, 7.764995
N, 1265, -1.358839, 1.358839, 7.764993
N, 1268, .4689925, 1.863581, 7.764995
N, 1269, .9397860, 1.676213, 7.764993
N, 1273, 2., 3.499998, 7.764997
N, 1274, 2., 2.999998, 7.764997
N, 1275, 2., 2.499999, 7.764997
N, 1276, 2., 2., 7.764997
N, 1277, 2., 1.499999, 7.764997
N, 1278, 2., .9999994, 7.764997
N, 1279, 2., .4999997, 7.764997
N, 1280, 2., 3.999998, 10.47333
N, 1281, 2., 3.999998, 9.931662
N, 1282, 2., 3.999998, 9.389996
N, 1283, 2., 3.999998, 8.848329
N, 1284, 2., 3.999998, 8.306663
N, 1285, 1.999700, .316704, 9.213769
N, 1289, -2.000050, 7.0076E-01, 10.55706
N, 1291, -1.999652, .475428, 9.65293
N, 1293, -2., 3.999998, 10.47333
N, 1294, -2., 3.999998, 9.931662
N, 1295, -2., 3.999998, 9.389996
N, 1296, -2., 3.999998, 8.848329
N, 1297, -2., 3.999998, 8.306663
N, 1298, -2.360E-05, 2.478765, 11.01499
N, 1299, -3.424E-05, 2.862729, 11.01499
N, 1300, -3.219E-05, 3.239897, 11.01499
N, 1301, -1.834E-05, 3.61535, 11.01499
N, 1302, -1.740696, 1.793789, 11.01499
N, 1303, -1.417456, 3.490561, 11.01499
N, 1304, -1.224172, 2.910301, 11.01499
N, 1305, -1.036286, 2.36701, 11.01499
N, 1306, -.5255971, 2.450297, 11.01499

N, 1307, -5.577E-01, 2.866014, 11.01499
N, 1308, -4.807E-01, 3.240660, 11.01499
N, 1309, -4.816E-01, 3.610713, 11.01499
N, 1310, -.9456384, 3.586812, 11.01499
N, 1311, -.8835005, 3.245924, 11.01499
N, 1312, -1.403937, 2.197937, 11.01499
N, 1313, -1.716731, 2.24117, 11.01499
N, 1314, -1.722290, 2.577772, 11.01499
N, 1315, -1.450133, 2.562003, 11.01499
N, 1316, -1.833463, 1.452223, 11.01499
N, 1317, 1.417436, 3.490561, 11.01499
N, 1318, 1.224138, 2.9103, 11.01499
N, 1319, 1.036259, 2.367009, 11.01499
N, 1320, 1.740692, 1.793789, 11.01499
N, 1321, 1.716722, 2.241173, 11.01499
N, 1322, 1.403919, 2.197934, 11.01499
N, 1323, 1.450112, 2.562004, 11.01499
N, 1324, 1.722277, 2.577763, 11.01499
N, 1325, 1.833462, 1.452222, 11.01499
N, 1326, 5.2557E-01, 2.450296, 11.01499
N, 1327, .5575744, 2.866014, 11.01499
N, 1328, .4806389, 3.240659, 11.01499
N, 1329, .4815578, 3.610713, 11.01499
N, 1330, .9456133, 3.586812, 11.01499
N, 1331, .8834635, 3.245924, 11.01499
N, 1332, 7.6020E-03, 2.259573, 7.764997
N, 1333, 5.5283E-03, 2.676399, 7.764997
N, 1334, -4.823E-02, 3.124013, 7.764997
N, 1335, -2.854E-02, 3.567363, 7.764997
N, 1336, -1.488111, 3.577123, 7.764997
N, 1337, -1.429921, 3.195226, 7.764997
N, 1338, -1.187433, 2.899213, 7.764997
N, 1339, -1.068192, 2.51579, 7.764997
N, 1340, -.9958382, 2.094260, 7.764997
N, 1341, -5.048E-01, 2.211137, 7.764997
N, 1342, -1.022495, 3.613294, 7.764997
N, 1343, -5.578E-01, 3.57148, 7.764997
N, 1344, -.6798731, 3.105286, 7.764997
N, 1345, -1.044096, 3.304602, 7.764997
N, 1346, -5.619E-01, 2.627153, 7.764997
N, 1347, -1.470576, 1.973915, 7.764997
N, 1348, -1.527615, 2.442573, 7.764997
N, 1349, -1.571683, 2.780595, 7.764997
N, 1350, .5297401, 2.229116, 7.764997
N, 1351, 6.2468E-01, 2.694919, 7.764997
N, 1352, .5100665, 3.147057, 7.764997
N, 1353, .4918501, 3.573984, 7.764997
N, 1354, 1.479729, 3.556811, 7.764997
N, 1355, 1.43307, 3.14574, 7.764997
N, 1356, 1.280597, 2.830847, 7.764997
N, 1357, 1.119043, 2.515040, 7.764997
N, 1358, 1.017749, 2.098419, 7.764997
N, 1359, 1.482439, 1.973310, 7.764997
N, 1360, 1.55318, 2.435988, 7.764997
N, 1361, 1.611259, 2.75561, 7.764997
N, 1362, .9858922, 3.581528, 7.764997
N, 1363, .972023, 3.195336, 7.764997
N, 1364, .9590983, 2.907034, 7.764997
N, 1365, 2., .8984224, 9.613109
N, 1366, 2., 1.304362, 9.548090

N, 1367, 2., 1.705446, 9.467362
N, 1368, 2., 2.123829, 9.379697
N, 1369, 2., 2.580055, 9.356537
N, 1370, 2., 3.044741, 9.363167
N, 1371, 2., 3.519246, 9.376419
N, 1372, 2., .8084835, 9.208196
N, 1373, 2., 1.217798, 9.150515
N, 1374, 2., 1.607866, 9.047247
N, 1375, 2., 2.020163, 8.845480
N, 1376, 2., 2.540920, 8.836038
N, 1377, 2., 3.029475, 8.835823
N, 1378, 2., 3.514203, 8.841137
N, 1379, 2., 3.508034, 8.303907
N, 1380, 2., 3.017823, 8.302699
N, 1381, 2., 2.533618, 8.305878
N, 1382, 2., 2.07552, 8.319528
N, 1383, 2., 1.427424, 8.090539
N, 1384, 2., 1.439152, 8.409466
N, 1385, 2., 1.487311, 8.724755
N, 1386, 2., 1.149737, 8.797649
N, 1387, 2., 1.092964, 8.460096
N, 1388, 2., 1.044829, 8.114703
N, 1389, 2., 8.0043E-01, 8.854706
N, 1390, 2., .737851, 8.518231
N, 1391, 2., 6.5884E-01, 8.143076
N, 1392, 2., 3.9900E-01, 8.614841
N, 1393, 2., .5053769, 8.894439
N, 1394, 2., .3526124, 8.174305
N, 1395, 2., 1.748036, 8.361444
N, 1396, 2., 1.725153, 8.072327
N, 1397, 2., 1.751837, 8.643893
N, 1398, 2., 3.517821, 9.911117
N, 1399, 2., 3.049620, 9.883214
N, 1400, 2., 2.609832, 9.846187
N, 1401, 2., 2.188504, 9.848057
N, 1402, 2., 1.784456, 9.892916
N, 1403, 2., 1.394637, 9.960026
N, 1404, 2., 1.004636, 10.04230
N, 1405, 2., 1.128901, 10.49274
N, 1406, 2., 1.889713, 10.65962
N, 1407, 2., 1.848652, 10.29553
N, 1408, 2., 2.235228, 10.27264
N, 1409, 2., 2.620523, 10.29620
N, 1410, 2., 3.02561, 10.41182
N, 1411, 2., 3.50212, 10.45282
N, 1412, 2., 2.282850, 10.6503
N, 1413, 2., 2.611161, 10.65383
N, 1414, 2., 1.484722, 10.35636
N, 1415, 2., 1.566572, 10.67699
N, 1416, -2., 3.519402, 9.376592
N, 1417, -2., 3.044914, 9.363349
N, 1418, -2., 2.580147, 9.356616
N, 1419, -2., 2.123778, 9.379603
N, 1420, -2., 1.705242, 9.467089
N, 1421, -2., 1.304067, 9.547715
N, 1422, -2., .8981698, 9.612796
N, 1423, -2., .808329, 9.207996
N, 1424, -2., 1.217596, 9.150249
N, 1425, -2., 1.607706, 9.047028
N, 1426, -2., 2.020099, 8.845376

N, 1427, -2., 2.540951, 8.836052
N, 1428, -2., 3.029554, 8.8359
N, 1429, -2., 3.514269, 8.841207
N, 1430, -2., 3.508058, 8.303931
N, 1431, -2., 3.017849, 8.302723
N, 1432, -2., 2.533623, 8.30587
N, 1433, -2., 2.075484, 8.319468
N, 1434, -2., 1.427366, 8.090458
N, 1435, -2., 1.439048, 8.409320
N, 1436, -2., 1.487176, 8.724569
N, 1437, -2., 1.14959, 8.797454
N, 1438, -2., 1.092865, 8.45996
N, 1439, -2., 1.044778, 8.114634
N, 1440, -2., 8.0032E-01, 8.854557
N, 1441, -2., .7377742, 8.518128
N, 1442, -2., 6.5880E-01, 8.143023
N, 1443, -2., 3.9896E-01, 8.614785
N, 1444, -2., 5.0533E-01, 8.894371
N, 1445, -2., 3.5259E-01, 8.174268
N, 1446, -2., 1.747961, 8.361336
N, 1447, -2., 1.725109, 8.072264
N, 1448, -2., 1.751745, 8.643760
N, 1449, -2., 3.517889, 9.911187
N, 1450, -2., 3.049694, 9.883284
N, 1451, -2., 2.609856, 9.846189
N, 1452, -2., 2.188442, 9.847955
N, 1453, -2., 1.784313, 9.892719
N, 1454, -2., 1.394464, 9.959799
N, 1455, -2., 1.004513, 10.04214
N, 1456, -2., 1.128844, 10.49266
N, 1457, -2., 1.889666, 10.65955
N, 1458, -2., 1.848564, 10.2954
N, 1459, -2., 2.235182, 10.27256
N, 1460, -2., 2.620523, 10.29618
N, 1461, -2., 3.025636, 10.41184
N, 1462, -2., 3.502144, 10.45284
N, 1463, -2., 2.282824, 10.65027
N, 1464, -2., 2.611153, 10.65381
N, 1465, -2., 1.484628, 10.35623
N, 1466, -2., 1.566526, 10.67693
N, 1470, 0., -1.921689, 7.764997
N, 1471, 1.921689, 0., 7.764997
N, 1475, -1.921689, 0., 7.764997
N, 1476, 2.000002, 7.9034E-01, 11.01499
N, 1478, 0., 2.199999, 11.69999
N, 1479, 1.539508, 1.571595, 11.69999
N, 1480, -2.000008, .7903251, 11.01499
N, 1483, 0., 1.921689, 7.764997
N, 1485, 0., -1.372499, 0.
N, 1486, -1.372499, 0., 0.
N, 1488, 2.152605, -.4541954, 11.69999
N, 1489, 2.000158, -.9161743, 11.69999
N, 1490, 1.737628, -1.349319, 11.69999
N, 1491, 1.377225, -1.715594, 11.69999
N, 1492, .9475248, -1.985499, 11.69999
N, 1493, 0., -2.169076, 11.26277
N, 1494, 0., -2.138152, 10.82555
N, 1495, 0., -2.107229, 10.38833
N, 1496, 0., -2.076306, 9.951106
N, 1497, 0., -2.045382, 9.513884

N, 1498, 0., -2.014459, 9.076662
N, 1499, 0., -1.983536, 8.639440
N, 1500, 0., -1.952612, 8.202218
N, 1501, .4689925, -1.863581, 7.764995
N, 1502, .9397860, -1.676213, 7.764993
N, 1503, 1.358839, -1.358839, 7.764993
N, 1504, 1.676213, -.9397859, 7.764993
N, 1505, 1.863581, -4.690E-01, 7.764995
N, 1506, 2.02857, 0., 9.276175
N, 1507, 2.057142, 0., 9.680145
N, 1508, 2.085713, 0., 10.08411
N, 1509, 2.114285, 0., 10.48808
N, 1510, 2.142856, 0., 10.89205
N, 1511, 2.171427, 0., 11.29602
N, 1512, -2.151633, -.4587786, 11.69999
N, 1513, -1.996024, -.9251462, 11.69999
N, 1515, -1.361319, -1.728243, 11.69999
N, 1516, -.9251461, -1.996024, 11.69999
N, 1517, -.4587785, -2.151633, 11.69999
N, 1518, -2.02857, 0., 9.276175
N, 1519, -2.057142, 0., 9.680145
N, 1520, -2.085713, 0., 10.08411
N, 1521, -2.114285, 0., 10.48808
N, 1522, -2.142856, 0., 10.89205
N, 1523, -2.171427, 0., 11.29602
N, 1524, -1.863581, -.4689925, 7.764995
N, 1525, -1.676213, -.9397860, 7.764993
N, 1526, -1.358839, -1.358839, 7.764993
N, 1527, -.9397859, -1.676213, 7.764993
N, 1528, -4.690E-01, -1.863581, 7.764995
N, 1530, 1.999652, .4754263, 9.65293
N, 1531, 1.999899, 5.9649E-01, 10.10320
N, 1532, 2.000049, .7007571, 10.55706
N, 1534, .9914242, 1.909434, 11.01499
N, 1535, 1.412586, 1.62152, 11.01499
N, 1536, 1.759694, 1.237596, 11.01499
N, 1537, 7.9969E-01, 2.049509, 11.69999
N, 1540, -1.999899, 5.9649E-01, 10.10320
N, 1542, -1.9997, .3167052, 9.213769
N, 1544, -1.412586, 1.621521, 11.01499
N, 1545, -.9914242, 1.909434, 11.01499
N, 1546, -5.085E-01, 2.089330, 11.01499
N, 1548, -2.039836, 8.2406E-01, 11.69999
N, 1550, 0., 1.954526, 8.229282
N, 1551, 0., 1.987363, 8.693567
N, 1552, 0., 2.0202, 9.157852
N, 1553, 0., 2.053038, 9.622139
N, 1554, 0., 2.085875, 10.08642
N, 1555, 0., 2.118712, 10.5507
N, 1557, -1.676213, .9397860, 7.764993
N, 1559, -.9397859, 1.676213, 7.764993
N, 1560, -4.690E-01, 1.863581, 7.764995
N, 1563, 1.358839, 1.358839, 7.764993
N, 1564, 1.676213, .9397859, 7.764993
N, 1565, 1.863581, 4.6900E-01, 7.764995
N, 1566, 1.887365, 0., 7.279684
N, 1567, 1.85304, 0., 6.794372
N, 1568, 1.818716, 0., 6.309060
N, 1569, 1.784392, 0., 5.823747
N, 1570, 1.750067, 0., 5.338435

N, 1571, 1.715743, 0., 4.853123
N, 1572, 1.681419, 0., 4.36781
N, 1573, 1.647094, 0., 3.882498
N, 1574, 1.612770, 0., 3.397186
N, 1575, 1.578446, 0., 2.911874
N, 1576, 1.544121, 0., 2.426561
N, 1577, 1.509797, 0., 1.941249
N, 1578, 1.475472, 0., 1.455937
N, 1579, 1.441148, 0., .9706246
N, 1580, 1.406824, 0., .4853123
N, 1581, 0., -1.887365, 7.279684
N, 1582, 0., -1.85304, 6.794372
N, 1583, 0., -1.818716, 6.309060
N, 1584, 0., -1.784392, 5.823747
N, 1585, 0., -1.750067, 5.338435
N, 1586, 0., -1.715743, 4.853123
N, 1587, 0., -1.681419, 4.36781
N, 1588, 0., -1.647094, 3.882498
N, 1589, 0., -1.612770, 3.397186
N, 1590, 0., -1.578446, 2.911874
N, 1591, 0., -1.544121, 2.426561
N, 1592, 0., -1.509797, 1.941249
N, 1593, 0., -1.475472, 1.455937
N, 1594, 0., -1.441148, .9706246
N, 1595, 0., -1.406824, .4853123
N, 1598, .5052097, -1.276134, 0.
N, 1599, -1.887365, 0., 7.279684
N, 1600, -1.85304, 0., 6.794372
N, 1601, -1.818716, 0., 6.309060
N, 1602, -1.784392, 0., 5.823747
N, 1603, -1.750067, 0., 5.338435
N, 1604, -1.715743, 0., 4.853123
N, 1605, -1.681419, 0., 4.36781
N, 1606, -1.647094, 0., 3.882498
N, 1607, -1.612770, 0., 3.397186
N, 1608, -1.578446, 0., 2.911874
N, 1609, -1.544121, 0., 2.426561
N, 1610, -1.509797, 0., 1.941249
N, 1611, -1.475472, 0., 1.455937
N, 1612, -1.441148, 0., .9706246
N, 1613, -1.406824, 0., .4853123
N, 1616, -.5052097, -1.276134, 0.
N, 1617, 0., 1.887365, 7.279684
N, 1618, 0., 1.85304, 6.794372
N, 1619, 0., 1.818716, 6.309060
N, 1620, 0., 1.784392, 5.823747
N, 1621, 0., 1.750067, 5.338435
N, 1622, 0., 1.715743, 4.853123
N, 1623, 0., 1.681419, 4.36781
N, 1624, 0., 1.647094, 3.882498
N, 1625, 0., 1.612770, 3.397186
N, 1626, 0., 1.578446, 2.911874
N, 1627, 0., 1.544121, 2.426561
N, 1628, 0., 1.509797, 1.941249
N, 1629, 0., 1.475472, 1.455937
N, 1630, 0., 1.441148, .9706246
N, 1631, 0., 1.406824, .4853123
N, 1633, .9705034, .9705034, 0.
N, 1636, -.9705034, .9705034, 0.
N, 1637, -1.276134, .5052097, 0.

N, 1638, 1.346417, -1.420184, 8.271341
N, 1639, 1.327074, -1.484885, 8.758858
N, 1640, 1.299145, -1.552334, 9.225116
N, 1641, 1.238917, -1.635888, 9.617244
N, 1642, 1.218823, -1.681330, 9.966728
N, 1643, 1.269912, -1.67532, 10.32631
N, 1644, 1.320307, -1.676435, 10.76125
N, 1645, 1.354485, -1.689979, 11.22499
N, 1646, 5.1363E-01, -1.883798, 8.212079
N, 1647, 5.2163E-01, -1.914362, 8.658875
N, 1648, .5153312, -1.94853, 9.098927
N, 1649, .504668, -1.98315, 9.528076
N, 1650, .5009913, -2.015243, 9.950100
N, 1651, 5.0763E-01, -2.044502, 10.37382
N, 1652, 5.1578E-01, -2.074024, 10.80704
N, 1653, 5.1356E-01, -2.105892, 11.24962
N, 1654, .902779, -1.869387, 9.957513
N, 1655, .9113393, -1.833755, 9.559755
N, 1656, .9394299, -1.787748, 9.142945
N, 1657, .9565976, -1.741583, 8.696453
N, 1658, .9604024, -1.701741, 8.233848
N, 1659, .9468910, -1.913195, 10.78989
N, 1660, .9225526, -1.891352, 10.36013
N, 1661, .9594041, -1.942432, 11.23903
N, 1662, 1.948223, -.9433531, 11.20293
N, 1663, 1.911972, -.9311190, 10.66338
N, 1664, 1.803401, -1.061764, 10.19975
N, 1665, 1.741629, -1.111058, 9.811592
N, 1666, 1.621011, -1.233576, 9.389740
N, 1667, 1.631579, -1.153096, 8.851215
N, 1668, 1.655308, -1.052555, 8.337258
N, 1669, 1.874892, -.6052502, 8.471775
N, 1670, 1.98498, -.4372996, 9.343124
N, 1671, 1.856764, -.8251005, 9.348816
N, 1672, 2.01411, -4.280E-01, 9.710865
N, 1673, 2.0445, -4.154E-01, 10.0849
N, 1674, 2.069506, -4.150E-01, 10.44527
N, 1675, 2.080789, -.4815490, 10.81016
N, 1676, 2.110262, -.4917748, 11.24983
N, 1677, 1.901521, -7.921E-01, 9.743099
N, 1678, 1.945097, -7.562E-01, 10.10665
N, 1679, 1.983970, -7.092E-01, 10.40416
N, 1680, 1.848992, -7.683E-01, 8.92738
N, 1681, 1.966637, -.4238358, 9.045125
N, 1682, 1.688814, -1.35395, 11.20783
N, 1683, 1.640228, -1.359245, 10.71185
N, 1684, 1.560761, -1.397529, 10.22395
N, 1685, 1.600352, -1.319674, 9.918784
N, 1686, 1.479602, -1.432547, 9.723142
N, 1687, 1.426073, -1.510146, 9.970568
N, 1688, -1.334277, -1.428262, 8.23899
N, 1689, -1.314107, -1.493764, 8.720798
N, 1690, -1.287703, -1.559426, 9.199490
N, 1691, -1.227514, -1.643157, 9.604536
N, 1692, -1.206282, -1.690253, 9.96334
N, 1693, -1.254606, -1.686936, 10.33044
N, 1694, -1.300091, -1.691982, 10.76905
N, 1695, -1.336453, -1.705256, 11.22933
N, 1696, -1.826877, -.7023051, 8.266449
N, 1697, -1.824546, -.7978257, 8.776795

N, 1698, -1.848128, -8.328E-01, 9.279685
N, 1699, -1.905795, -7.817E-01, 9.739999
N, 1700, -1.96841, -7.071E-01, 10.18598
N, 1701, -2.058167, -.5350629, 10.68328
N, 1702, -2.101705, -.5171666, 11.21951
N, 1703, -1.63164, -1.079260, 8.259296
N, 1704, -1.613503, -1.171861, 8.775279
N, 1705, -1.609152, -1.243205, 9.352670
N, 1706, -1.736046, -1.119515, 9.809673
N, 1707, -1.796126, -1.0801, 10.23376
N, 1708, -1.869436, -1.016357, 10.71207
N, 1709, -1.929712, -.9792954, 11.20945
N, 1710, -1.670595, -1.377856, 11.21532
N, 1711, -1.61343, -1.391835, 10.73088
N, 1712, -1.546747, -1.415466, 10.23466
N, 1713, -1.468224, -1.442869, 9.709785
N, 1714, -1.589802, -1.332080, 9.917357
N, 1715, -1.412946, -1.522057, 9.968610
N, 1716, -1.980368, -.4381323, 9.257674
N, 1717, -2.015502, -4.145E-01, 9.691078
N, 1718, -2.051749, -3.716E-01, 10.09399
N, 1719, -2.085246, -3.128E-01, 10.42061
N, 1720, -1.949106, -4.261E-01, 8.792779
N, 1721, -1.917272, -.394157, 8.272734
N, 1722, -.9415501, -1.951449, 11.2411
N, 1723, -.9312834, -1.921177, 10.79296
N, 1724, -.9100682, -1.897626, 10.36119
N, 1725, -.892225, -1.874375, 9.954408
N, 1726, -.9019195, -1.837742, 9.551087
N, 1727, -.9297131, -1.790590, 9.128199
N, 1728, -.9485073, -1.745731, 8.67782
N, 1729, -.9539354, -1.704295, 8.219834
N, 1730, -5.120E-01, -1.88592, 8.206590
N, 1731, -.4934607, -2.016137, 9.948553
N, 1732, -.5105771, -1.950355, 9.09233
N, 1733, -.4983935, -1.984308, 9.524028
N, 1734, -5.182E-01, -1.916747, 8.651224
N, 1735, -.5045586, -2.075930, 10.8083
N, 1736, -4.987E-01, -2.045816, 10.37419
N, 1737, -4.985E-01, -2.109294, 11.25057
N, 1738, 2.043470, 2.4760E-01, 9.70839
N, 1739, 2.063312, 3.0782E-01, 10.10306
N, 1740, 2.08395, 3.6157E-01, 10.51926
N, 1741, 2.106202, 4.0461E-01, 10.93238
N, 1742, 2.129945, 4.2319E-01, 11.30786
N, 1743, 2.027200, 1.9020E-01, 9.39922
N, 1744, 1.458807, 1.612948, 11.35354
N, 1745, .9812909, 1.94058, 11.35310
N, 1746, 5.4317E-01, 2.106309, 11.35286
N, 1747, 1.784544, 1.243364, 11.35405
N, 1748, -2.007234, 8.3264E-01, 11.34443
N, 1749, -2.130624, 4.2321E-01, 11.31738
N, 1750, -2.043467, .2475733, 9.708324
N, 1751, -2.063317, 3.0781E-01, 10.10309
N, 1752, -2.083989, 3.6156E-01, 10.51977
N, 1753, -2.106374, .4046028, 10.93476
N, 1754, -2.027197, 1.9019E-01, 9.399175
N, 1755, -1.443936, 1.626488, 11.35182
N, 1756, -.91183, 1.975152, 11.35145
N, 1757, -.513112, 2.113437, 11.35249

N, 1758, -1.78314, 1.244970, 11.35105
N, 1759, -1.773028, 1.089012, 10.01048
N, 1760, -1.41083, 1.516518, 9.890732
N, 1761, -.9883857, 1.82992, 10.00445
N, 1762, -.531258, 2.014034, 10.05172
N, 1763, -5.118E-01, 1.953415, 9.151207
N, 1764, -.9350895, 1.791939, 9.163953
N, 1765, -1.278990, 1.568557, 9.220664
N, 1766, -1.552584, 1.319591, 9.410103
N, 1767, -1.816219, .9447941, 9.547829
N, 1768, -5.165E-01, 1.918388, 8.693437
N, 1769, -.9596108, 1.740967, 8.710046
N, 1770, -1.361474, 1.452457, 8.751333
N, 1771, -1.634105, 1.166387, 8.98936
N, 1772, -1.853249, .7940482, 9.128058
N, 1773, -1.313051, 1.450457, 8.266373
N, 1774, -.9473537, 1.709745, 8.240575
N, 1775, -5.054E-01, 1.887457, 8.229425
N, 1776, -1.843674, .6129693, 8.088016
N, 1777, -1.853054, .6589772, 8.421696
N, 1778, -1.881238, .6526289, 8.770974
N, 1779, -1.707061, .9709228, 8.368448
N, 1780, -1.53328, 1.22083, 8.314543
N, 1781, -1.70139, .9379367, 8.066094
N, 1782, -1.540330, 1.18326, 8.047447
N, 1783, -1.702788, 1.021864, 8.675675
N, 1784, -1.541898, 1.242705, 8.579394
N, 1785, -1.91494, 3.3717E-01, 8.104084
N, 1786, -1.938465, .35055, 8.464104
N, 1787, -.5123662, 1.98617, 9.599166
N, 1788, -.9249134, 1.828718, 9.581220
N, 1789, -1.214462, 1.649114, 9.563062
N, 1790, -1.760014, 1.17523, 10.51247
N, 1791, -1.416735, 1.567553, 10.47811
N, 1792, -1.002736, 1.862386, 10.50387
N, 1793, -5.339E-01, 2.048294, 10.52755
N, 1794, 1.772708, 1.088639, 10.01051
N, 1795, 1.41083, 1.516519, 9.890730
N, 1796, .9888142, 1.830424, 10.00439
N, 1797, .5321186, 2.015043, 10.05162
N, 1798, .5123853, 1.954212, 9.151126
N, 1799, .9343761, 1.791106, 9.164039
N, 1800, 1.278988, 1.568558, 9.220664
N, 1801, 1.553293, 1.320423, 9.410018
N, 1802, 1.816219, .9447942, 9.547828
N, 1803, 5.1773E-01, 1.91988, 8.693283
N, 1804, .9606841, 1.742226, 8.709916
N, 1805, 1.361473, 1.452458, 8.751333
N, 1806, 1.634104, 1.166388, 8.989360
N, 1807, 1.853249, 7.9405E-01, 9.128057
N, 1808, 1.31305, 1.450458, 8.266373
N, 1809, .9485794, 1.71118, 8.240428
N, 1810, .5064468, 1.888782, 8.229289
N, 1811, 1.843673, .6129696, 8.088016
N, 1812, 1.853053, .6589778, 8.421695
N, 1813, 1.881238, 6.5263E-01, 8.770973
N, 1814, 1.70706, .9709235, 8.368447
N, 1815, 1.533280, 1.220831, 8.314542
N, 1816, 1.701681, .9382778, 8.06606
N, 1817, 1.539592, 1.182398, 8.047535

N, 1818, 1.703138, 1.022275, 8.675632
N, 1819, 1.540845, 1.241474, 8.579519
N, 1820, 1.914940, .3371689, 8.104084
N, 1821, 1.938465, 3.5056E-01, 8.464104
N, 1822, .5127116, 1.986576, 9.599125
N, 1823, .9249122, 1.828718, 9.581220
N, 1824, 1.21446, 1.649115, 9.563062
N, 1825, 1.759639, 1.174792, 10.51251
N, 1826, 1.416734, 1.567553, 10.47811
N, 1827, 1.003063, 1.862769, 10.50383
N, 1828, 5.3442E-01, 2.048989, 10.52747
N, 1829, .9922037, -.9932176, .4707665
N, 1830, 1.015397, -1.018029, .951582
N, 1831, 1.038196, -1.044028, 1.440563
N, 1832, 1.059717, -1.072341, 1.94042
N, 1833, 1.078053, -1.105735, 2.46045
N, 1834, 1.088027, -1.151440, 3.022941
N, 1835, 1.072201, -1.231649, 3.681160
N, 1836, 1.170277, -1.19455, 4.272374
N, 1837, 1.20914, -1.207862, 4.791064
N, 1838, 1.23563, -1.231175, 5.289202
N, 1839, 1.259768, -1.256191, 5.781414
N, 1840, 1.283678, -1.281332, 6.272647
N, 1841, 1.307792, -1.306424, 6.765393
N, 1842, 1.332213, -1.331589, 7.261912
N, 1843, .5602624, -1.287099, .4733214
N, 1844, .5130918, -1.812922, 7.26824
N, 1845, .9558585, -1.622678, 7.263421
N, 1846, .522803, -1.77338, 6.776704
N, 1847, .952253, -1.583922, 6.768273
N, 1848, .5201758, -1.737996, 6.287971
N, 1849, .9400484, -1.550730, 6.276958
N, 1850, 5.8471E-01, -1.313292, .9549342
N, 1851, 5.1289E-01, -1.704249, 5.801185
N, 1852, .9242845, -1.519909, 5.788049
N, 1853, 6.0028E-01, -1.34401, 1.442385
N, 1854, 6.1200E-01, -1.377032, 1.936666
N, 1855, 6.1901E-01, -1.413029, 2.44149
N, 1856, 6.1568E-01, -1.454942, 2.961331
N, 1857, 5.8765E-01, -1.508857, 3.487837
N, 1858, .4971962, -1.57059, 3.930226
N, 1859, 4.8633E-01, -1.606784, 4.371602
N, 1860, .4936667, -1.638988, 4.837763
N, 1861, 5.0362E-01, -1.671314, 5.316852
N, 1862, .9064693, -1.490539, 5.301553
N, 1863, .8858820, -1.463340, 4.820844
N, 1864, .8596163, -1.441372, 4.361502
N, 1865, .8261349, -1.431, 3.989127
N, 1866, 1.287335, -.5619277, .4732749
N, 1867, 1.626237, -.9583193, 7.262927
N, 1868, 1.814605, -5.142E-01, 7.267979
N, 1869, 1.58739, -.9532878, 6.767539
N, 1870, 1.776252, -.5241973, 6.776088
N, 1871, 1.313050, -.5881571, .9549919
N, 1872, 1.554656, -.9396347, 6.275440
N, 1873, 1.741432, -.5208612, 6.286659
N, 1874, 1.524822, -.9218135, 5.784284
N, 1875, 1.708144, -.5116754, 5.798193
N, 1876, 1.342514, -.6068713, 1.442988
N, 1877, 1.37293, -.6249009, 1.939487

N, 1878, 1.403917, -6.447E-01, 2.452929
N, 1879, 1.437660, -.6649701, 3.005676
N, 1880, 1.485868, -6.695E-01, 3.656729
N, 1881, 1.459476, -.8167702, 4.265389
N, 1882, 1.473957, -.871702, 4.790424
N, 1883, 1.497278, -.9003718, 5.291257
N, 1884, 1.675976, -4.981E-01, 5.310004
N, 1885, 1.645671, -4.777E-01, 4.823690
N, 1886, 1.61985, -.4434756, 4.352128
N, 1887, 1.60447, -.3911773, 3.961534
N, 1888, -.9927084, -.9927074, 4.7057E-01
N, 1889, -1.016708, -1.016707, .9510953
N, 1890, -1.041106, -1.041103, 1.439575
N, 1891, -1.066033, -1.066028, 1.938659
N, 1892, -1.091992, -1.091983, 2.458377
N, 1893, -1.120394, -1.120380, 3.026989
N, 1894, -1.15568, -1.155657, 3.733420
N, 1895, -1.185987, -1.185951, 4.340099
N, 1896, -1.210833, -1.21079, 4.837497
N, 1897, -1.234815, -1.234770, 5.317654
N, 1898, -1.258816, -1.258772, 5.79822
N, 1899, -1.28299, -1.28295, 6.282289
N, 1900, -1.307373, -1.307344, 6.770593
N, 1901, -1.332018, -1.332002, 7.264179
N, 1902, -1.287542, -.5614221, 4.7312E-01
N, 1903, -1.815464, -.5154407, 7.269019
N, 1904, -1.624327, -.9570935, 7.265154
N, 1905, -1.775742, -5.249E-01, 6.778827
N, 1906, -1.586388, -.9539236, 6.77234
N, 1907, -1.740309, -5.223E-01, 6.291948
N, 1908, -1.553648, -.9419598, 6.284464
N, 1909, -1.313583, -5.869E-01, .9545484
N, 1910, -1.706464, -.5155449, 5.807779
N, 1911, -1.522983, -.9268019, 5.800709
N, 1912, -1.343667, -6.041E-01, 1.441805
N, 1913, -1.37529, -.618864, 1.936066
N, 1914, -1.408460, -6.323E-01, 2.441922
N, 1915, -1.445167, -.640754, 2.966537
N, 1916, -1.491855, -.6289063, 3.505723
N, 1917, -1.563283, -5.287E-01, 3.94714
N, 1918, -1.6045, -5.041E-01, 4.388374
N, 1919, -1.639564, -5.025E-01, 4.851679
N, 1920, -1.673118, -5.081E-01, 5.326915
N, 1921, -1.493053, -.9109854, 5.321601
N, 1922, -1.463185, -.8961810, 4.850141
N, 1923, -1.433254, -.8844199, 4.398535
N, 1924, -1.406323, -.8785088, 4.023885
N, 1925, -5.608E-01, -1.286866, .4731945
N, 1926, -.9557146, -1.622921, 7.265306
N, 1927, -5.131E-01, -1.813027, 7.269344
N, 1928, -.9520091, -1.584424, 6.77255
N, 1929, -5.228E-01, -1.773590, 6.779161
N, 1930, -.5859629, -1.312693, .9546475
N, 1931, -.9398603, -1.551484, 6.284689
N, 1932, -5.203E-01, -1.738287, 6.29229
N, 1933, -.9246448, -1.520755, 5.800938
N, 1934, -5.137E-01, -1.704519, 5.808105
N, 1935, -6.031E-01, -1.342702, 1.441912
N, 1936, -6.179E-01, -1.374293, 1.936177
N, 1937, -6.313E-01, -1.407460, 2.442033

N, 1938, -.6398564, -1.444252, 2.966639
N, 1939, -6.285E-01, -1.491371, 3.505777
N, 1940, -5.276E-01, -1.562132, 3.947269
N, 1941, -5.025E-01, -1.602884, 4.388558
N, 1942, -5.008E-01, -1.637770, 4.85189
N, 1943, -.5062467, -1.671237, 5.327156
N, 1944, -.9087999, -1.490797, 5.321855
N, 1945, -.8939337, -1.460872, 4.8504
N, 1946, -.8820140, -1.430792, 4.398809
N, 1947, -.8758166, -1.403587, 4.024189
N, 1948, .9922036, .9932176, 4.7077E-01
N, 1949, 1.015397, 1.018029, .9515821
N, 1950, 1.038196, 1.044028, 1.440563
N, 1951, 1.059717, 1.07234, 1.94042
N, 1952, 1.078054, 1.105735, 2.46045
N, 1953, 1.088027, 1.151440, 3.022941
N, 1954, 1.072044, 1.231492, 3.681177
N, 1955, 1.170277, 1.19455, 4.272374
N, 1956, 1.20914, 1.207861, 4.791064
N, 1957, 1.235631, 1.231174, 5.289202
N, 1958, 1.259769, 1.25619, 5.781414
N, 1959, 1.283679, 1.281332, 6.272647
N, 1960, 1.307793, 1.306424, 6.765393
N, 1961, 1.332213, 1.331589, 7.261912
N, 1962, .5602625, 1.287099, 4.7333E-01
N, 1963, .5130923, 1.812922, 7.26824
N, 1964, .9558585, 1.622678, 7.26342
N, 1965, .5228035, 1.77338, 6.776703
N, 1966, .9522533, 1.583922, 6.768273
N, 1967, 5.2018E-01, 1.737996, 6.28797
N, 1968, .9400491, 1.550730, 6.276958
N, 1969, 5.8471E-01, 1.313292, .9549348
N, 1970, .5128832, 1.704248, 5.801185
N, 1971, .9242853, 1.519909, 5.788049
N, 1972, 6.0028E-01, 1.34401, 1.442386
N, 1973, 6.1200E-01, 1.377032, 1.936667
N, 1974, .6190039, 1.413029, 2.44149
N, 1975, .6156717, 1.454942, 2.961332
N, 1976, 5.8755E-01, 1.508755, 3.487849
N, 1977, 4.9720E-01, 1.57059, 3.930226
N, 1978, .4863279, 1.606784, 4.371602
N, 1979, .4936672, 1.638988, 4.837763
N, 1980, .503619, 1.671314, 5.316851
N, 1981, .90647, 1.490539, 5.301552
N, 1982, .8858826, 1.463339, 4.820844
N, 1983, .8596168, 1.441372, 4.361502
N, 1984, .8261353, 1.431, 3.989127
N, 1985, 1.287335, .5619278, 4.7328E-01
N, 1986, 1.624463, .9565453, 7.263124
N, 1987, 1.815517, .5150318, 7.267877
N, 1988, 1.58672, .9526175, 6.767613
N, 1989, 1.775883, 5.2383E-01, 6.776129
N, 1990, 1.313049, .5881572, .9549922
N, 1991, 1.554357, .9393351, 6.275473
N, 1992, 1.740652, .5200814, 6.286746
N, 1993, 1.524541, .9215322, 5.784315
N, 1994, 1.707333, .5108640, 5.798284
N, 1995, 1.342514, 6.0688E-01, 1.442988
N, 1996, 1.37293, .6249009, 1.939487
N, 1997, 1.403917, 6.4463E-01, 2.452929

N, 1998, 1.439784, 6.6710E-01, 3.005439
N, 1999, 1.485869, 6.6946E-01, 3.656730
N, 2000, 1.459477, .8167698, 4.265389
N, 2001, 1.472535, .8702791, 4.790583
N, 2002, 1.496717, .8998107, 5.291320
N, 2003, 1.675418, 4.9754E-01, 5.310066
N, 2004, 1.645815, 4.7775E-01, 4.823674
N, 2005, 1.621597, .4452215, 4.351933
N, 2006, 1.604471, 3.9118E-01, 3.961534
N, 2007, -.9927081, .9927077, .4705696
N, 2008, -1.016708, 1.016707, .9510952
N, 2009, -1.041105, 1.041103, 1.439574
N, 2010, -1.066033, 1.066029, 1.938659
N, 2011, -1.091991, 1.091984, 2.458377
N, 2012, -1.120392, 1.12038, 3.026989
N, 2013, -1.155679, 1.155659, 3.733419
N, 2014, -1.185984, 1.185954, 4.340098
N, 2015, -1.210829, 1.210793, 4.837496
N, 2016, -1.234812, 1.234773, 5.317653
N, 2017, -1.258813, 1.258775, 5.798220
N, 2018, -1.282987, 1.282954, 6.282289
N, 2019, -1.307371, 1.307346, 6.770592
N, 2020, -1.332017, 1.332003, 7.264179
N, 2021, -1.287542, 5.6143E-01, .4731190
N, 2022, -1.814578, .5145561, 7.269117
N, 2023, -1.626064, .9588320, 7.26496
N, 2024, -1.776177, .52528, 6.778778
N, 2025, -1.586969, .9545081, 6.772275
N, 2026, -1.74123, 5.2318E-01, 6.291845
N, 2027, -1.553768, .9420844, 6.284449
N, 2028, -1.313583, 5.8686E-01, .9545482
N, 2029, -1.707585, 5.1667E-01, 5.807654
N, 2030, -1.522901, .9267249, 5.800718
N, 2031, -1.343666, .6040083, 1.441805
N, 2032, -1.375290, .6188643, 1.936066
N, 2033, -1.408459, 6.3222E-01, 2.441922
N, 2034, -1.445167, .6407549, 2.966537
N, 2035, -1.491854, 6.2891E-01, 3.505723
N, 2036, -1.563283, 5.2870E-01, 3.947140
N, 2037, -1.606768, 5.0630E-01, 4.38812
N, 2038, -1.641091, .5040276, 4.851509
N, 2039, -1.674382, 5.0936E-01, 5.326774
N, 2040, -1.492833, .9107708, 5.321625
N, 2041, -1.462771, .8957721, 4.850186
N, 2042, -1.432467, .8836373, 4.398622
N, 2043, -1.404929, .8771186, 4.024039
N, 2044, -.5607468, 1.286866, 4.7320E-01
N, 2045, -.9557135, 1.622922, 7.265306
N, 2046, -5.131E-01, 1.813027, 7.269344
N, 2047, -.9520071, 1.584426, 6.772550
N, 2048, -5.228E-01, 1.77359, 6.779161
N, 2049, -.5859626, 1.312693, .9546474
N, 2050, -.9398575, 1.551486, 6.284688
N, 2051, -5.203E-01, 1.738288, 6.292290
N, 2052, -.9246417, 1.520757, 5.800938
N, 2053, -5.137E-01, 1.704519, 5.808105
N, 2054, -6.031E-01, 1.342703, 1.441912
N, 2055, -.6178735, 1.374293, 1.936177
N, 2056, -.6312276, 1.40746, 2.442033
N, 2057, -.6.399E-01, 1.444253, 2.966638

N, 2058, -6.285E-01, 1.491372, 3.505777
N, 2059, -5.276E-01, 1.562132, 3.947269
N, 2060, -.5024397, 1.602885, 4.388557
N, 2061, -.5007421, 1.63777, 4.851890
N, 2062, -.5062444, 1.671237, 5.327155
N, 2063, -.9087967, 1.490798, 5.321854
N, 2064, -.8939305, 1.460873, 4.8504
N, 2065, -.8820112, 1.430793, 4.398809
N, 2066, -.8758144, 1.403588, 4.024189

/COM

/COM REAL CONSTANT TABLES

/COM

R, 1, .135, 0., 0., 0., 0., 0.
R, 2, .1050, 0., 0., 0., 0., 0.
R, 3, .25, 0., 0., 0., 0., 0.
R, 4, 1.12, 0., 0., 0., 0., 0.
R, 5, .125, 0., 0., 0., 0., 0.
R, 6, .16, 0., 0., 0., 0., 0.
R, 7, .4, 0., 0., 0., 0., 0.
R, 8, .4, 0., 0., 0., 0., 0.

/COM

/COM MATERIAL PROPERTY TABLES

/COM

EX, 1, 3.00000e+07
NUXY, 1, 2.91000e-01
DENS, 1, 7.25389e-04
ALPX, 1, 2.00556e-06

/COM

/COM ELEMENT TYPE TABLES

/COM

ET, 1, 63, 0, 0, 0, 0, 0

/COM

/COM ELEMENT DEFINITIONS

/COM

TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 93, 90, 89, 94
E, 92, 91, 90, 93
E, 84, 83, 91, 92
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 98, 87, 28, 29
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 96, 88, 87, 98
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 95, 97, 99, 694
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 97, 96, 98, 99
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 99, 98, 29, 694
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 95, 94, 96, 97
E, 94, 89, 88, 96
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 103, 95, 694, 594
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 102, 94, 95, 103
E, 101, 93, 94, 102
E, 104, 102, 103, 105
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 105, 103, 594, 683
E, 100, 104, 105, 683

TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 100, 101, 102, 104
E, 85, 84, 92, 106
E, 106, 92, 93, 101
E, 85, 106, 101, 100
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 107, 100, 683, 32
E, 33, 86, 107, 32
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 86, 85, 100, 107
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 34, 86, 33, 5
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 111, 110, 109, 108
E, 88, 111, 108, 87
E, 88, 17, 110, 111
E, 110, 17, 16, 109
E, 89, 18, 17, 88
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 108, 109, 113, 112
E, 109, 16, 3, 113
E, 112, 113, 3, 28
E, 87, 108, 112, 28
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 90, 19, 18, 89
E, 91, 20, 19, 90
E, 83, 21, 20, 91
E, 122, 121, 120, 119
E, 115, 122, 119, 118
E, 115, 114, 121, 122
E, 116, 115, 118, 117
E, 114, 24, 23, 121
E, 121, 23, 22, 120
E, 36, 116, 117, 35
E, 118, 119, 84, 85
E, 119, 120, 83, 84
E, 120, 22, 21, 83
E, 117, 118, 85, 86
E, 35, 117, 86, 34
E, 80, 25, 24, 114
E, 81, 80, 114, 115
E, 37, 82, 116, 36
E, 82, 81, 115, 116
E, 128, 127, 124, 123
E, 127, 126, 125, 124
E, 126, 27, 26, 125
E, 39, 128, 123, 38
E, 15, 2, 27, 126
E, 14, 15, 126, 127
E, 1, 13, 128, 39
E, 13, 14, 127, 128
E, 125, 26, 25, 80
E, 124, 125, 80, 81
E, 123, 124, 81, 82
E, 38, 123, 82, 37
E, 136, 139, 140, 135
E, 137, 138, 139, 136
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 10, 129, 138, 137
TYPE, 1 \$ REAL, 1 \$ MAT, 1

E, 135, 140, 141, 134
E, 134, 141, 142, 133
E, 133, 142, 143, 132
E, 132, 143, 144, 131
E, 130, 145, 46, 47
E, 131, 144, 145, 130
E, 142, 56, 57, 143
E, 141, 55, 56, 142
E, 140, 54, 55, 141
E, 143, 57, 58, 144
E, 139, 53, 54, 140
E, 129, 51, 52, 138
E, 138, 52, 53, 139
E, 145, 59, 8, 46
E, 144, 58, 59, 145
E, 148, 133, 132, 43
E, 147, 134, 133, 148
E, 42, 147, 148, 43
E, 146, 135, 134, 147
E, 41, 146, 147, 42
E, 43, 132, 131, 44
E, 44, 131, 130, 45
E, 149, 150, 153, 152
E, 152, 153, 136, 151
E, 150, 137, 136, 153
E, 151, 136, 135, 146
E, 40, 149, 152, 41
E, 152, 151, 146, 41
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 154, 155, 150, 149
E, 155, 10, 137, 150
E, 6, 10, 155, 154
E, 6, 154, 149, 40
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 45, 130, 47, 7
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 60, 156, 129, 10
E, 60, 597, 48, 156
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 158, 49, 50, 157
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 48, 49, 158, 156
E, 156, 158, 157, 129
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 157, 50, 51, 129
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 165, 67, 6, 40
E, 164, 66, 67, 165
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 162, 163, 169, 171
E, 161, 162, 171, 170
E, 172, 168, 42, 43
E, 170, 171, 172, 43
E, 171, 169, 168, 172
E, 167, 170, 43, 44
E, 160, 161, 170, 167
E, 168, 173, 41, 42
E, 173, 165, 40, 41
E, 163, 164, 174, 169
E, 174, 164, 165, 173

E, 169, 174, 173, 168
E, 166, 167, 44, 45
E, 159, 160, 167, 166
E, 70, 166, 45, 7
E, 69, 159, 166, 70
E, 181, 179, 164, 163
E, 178, 181, 163, 162
E, 178, 180, 179, 181
E, 62, 61, 180, 178
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 180, 183, 182, 179
E, 61, 11, 183, 180
E, 183, 11, 66, 182
E, 182, 66, 164, 179
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 177, 178, 162, 161
E, 63, 62, 178, 177
E, 176, 177, 161, 160
E, 64, 63, 177, 176
E, 175, 176, 160, 159
E, 65, 64, 176, 175
E, 68, 175, 159, 69
E, 12, 65, 175, 68
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 184, 190, 75, 76
E, 190, 34, 5, 75
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 195, 35, 34, 190
E, 194, 36, 35, 195
E, 185, 195, 190, 184
E, 186, 194, 195, 185
E, 187, 193, 194, 186
E, 193, 37, 36, 194
E, 188, 192, 193, 187
E, 192, 38, 37, 193
E, 189, 191, 192, 188
E, 191, 39, 38, 192
E, 72, 71, 191, 189
E, 71, 1, 39, 191
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 61, 196, 682, 11
E, 196, 184, 76, 682
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 199, 188, 187, 201
E, 201, 187, 186, 202
E, 203, 185, 184, 196
E, 202, 186, 185, 203
E, 205, 202, 203, 62
E, 63, 204, 205, 62
E, 204, 201, 202, 205
E, 64, 200, 204, 63
E, 200, 199, 201, 204
E, 62, 203, 196, 61
E, 197, 189, 188, 199
E, 198, 197, 199, 200
E, 65, 198, 200, 64
E, 12, 74, 198, 65
E, 74, 73, 197, 198
E, 73, 72, 189, 197
TYPE, 1 \$ REAL, 7 \$ MAT, 1

E, 695, 3, 16, 216
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 216, 16, 17, 215
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 597, 695, 216, 48
E, 48, 216, 215, 49
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 49, 215, 214, 50
E, 215, 17, 18, 214
E, 50, 214, 213, 51
E, 214, 18, 19, 213
E, 51, 213, 212, 52
E, 213, 19, 20, 212
E, 52, 212, 211, 53
E, 212, 20, 21, 211
E, 53, 211, 210, 54
E, 211, 21, 22, 210
E, 54, 210, 209, 55
E, 210, 22, 23, 209
E, 55, 209, 208, 56
E, 209, 23, 24, 208
E, 56, 208, 207, 57
E, 208, 24, 25, 207
E, 57, 207, 206, 58
E, 207, 25, 26, 206
E, 58, 206, 217, 59
E, 206, 26, 27, 217
E, 59, 217, 78, 8
E, 217, 27, 2, 78
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 598, 602, 236, 229
TYPE, 1 \$ REAL, 2 \$ MAT, 1
E, 229, 236, 237, 230
E, 230, 237, 238, 231
E, 231, 238, 239, 232
E, 232, 239, 240, 233
E, 233, 240, 241, 234
E, 234, 241, 242, 235
E, 235, 242, 220, 219
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 714, 283, 236, 602
E, 713, 282, 283, 714
TYPE, 1 \$ REAL, 2 \$ MAT, 1
E, 283, 284, 237, 236
E, 284, 281, 238, 237
E, 282, 281, 284, 283
E, 281, 280, 239, 238
E, 280, 279, 240, 239
E, 277, 246, 220, 242
E, 278, 277, 242, 241
E, 279, 278, 241, 240
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 712, 285, 282, 713
E, 222, 249, 285, 712
TYPE, 1 \$ REAL, 2 \$ MAT, 1
E, 292, 291, 279, 280
E, 293, 290, 291, 292
E, 250, 251, 290, 293
E, 294, 292, 280, 281
E, 285, 294, 281, 282

E, 249, 250, 293, 295
E, 249, 295, 294, 285
E, 295, 293, 292, 294
E, 291, 289, 278, 279
E, 290, 288, 289, 291
E, 251, 252, 288, 290
E, 289, 287, 277, 278
E, 288, 286, 287, 289
E, 252, 253, 286, 288
E, 253, 223, 248, 286
E, 286, 248, 247, 287
E, 287, 247, 246, 277
E, 309, 312, 311, 308
E, 306, 307, 311, 312
E, 310, 306, 312, 309
E, 230, 306, 310, 229
E, 311, 258, 257, 308
E, 307, 259, 258, 311
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 313, 314, 315, 316
E, 313, 316, 254, 255
E, 316, 315, 308, 254
TYPE, 1 \$ REAL, 2 \$ MAT, 1
E, 314, 309, 308, 315
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 308, 257, 224, 254
E, 256, 318, 313, 255
E, 317, 314, 313, 318
E, 598, 317, 318, 256
TYPE, 1 \$ REAL, 2 \$ MAT, 1
E, 317, 310, 309, 314
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 229, 310, 317, 598
TYPE, 1 \$ REAL, 2 \$ MAT, 1
E, 230, 231, 304, 306
E, 304, 305, 307, 306
E, 305, 260, 259, 307
E, 232, 302, 304, 231
E, 302, 303, 305, 304
E, 303, 261, 260, 305
E, 233, 300, 302, 232
E, 300, 301, 303, 302
E, 301, 262, 261, 303
E, 234, 298, 300, 233
E, 298, 299, 301, 300
E, 299, 263, 262, 301
E, 235, 296, 298, 234
E, 296, 297, 299, 298
E, 297, 264, 263, 299
E, 266, 225, 264, 297
E, 265, 266, 297, 296
E, 219, 265, 296, 235
E, 326, 259, 260, 327
E, 326, 327, 322, 323
E, 327, 260, 261, 322
E, 322, 261, 262, 321
E, 258, 259, 326, 325
E, 324, 325, 326, 323
E, 321, 262, 263, 320
TYPE, 1 \$ REAL, 7 \$ MAT, 1

E, 224, 257, 328, 435
E, 435, 328, 325, 324
TYPE, 1 \$ REAL, 2 \$ MAT, 1
E, 257, 258, 325, 328
E, 320, 263, 264, 319
E, 319, 264, 225, 273
E, 269, 322, 321, 270
E, 268, 323, 322, 269
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 433, 435, 324, 267
TYPE, 1 \$ REAL, 2 \$ MAT, 1
E, 267, 324, 323, 268
E, 272, 319, 273, 228
E, 271, 320, 319, 272
E, 270, 321, 320, 271
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 648, 329, 249, 222
E, 433, 267, 329, 648
TYPE, 1 \$ REAL, 2 \$ MAT, 1
E, 336, 335, 251, 250
E, 337, 334, 335, 336
E, 269, 270, 334, 337
E, 249, 339, 336, 250
E, 338, 337, 336, 339
E, 329, 338, 339, 249
E, 268, 269, 337, 338
E, 267, 268, 338, 329
E, 335, 333, 252, 251
E, 334, 332, 333, 335
E, 270, 271, 332, 334
E, 333, 331, 253, 252
E, 332, 330, 331, 333
E, 271, 272, 330, 332
E, 331, 276, 223, 253
E, 330, 275, 276, 331
E, 272, 228, 275, 330
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 595, 381, 377, 350
E, 357, 380, 381, 595
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 382, 379, 375, 376
E, 380, 379, 382, 381
E, 381, 382, 376, 377
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 358, 359, 378, 383
E, 358, 383, 380, 357
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 383, 378, 379, 380
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 359, 343, 356, 378
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 378, 356, 355, 379
E, 379, 355, 354, 375
E, 377, 376, 387, 385
E, 376, 375, 386, 387
E, 384, 388, 352, 351
E, 387, 386, 352, 388
E, 385, 387, 388, 384
E, 386, 353, 342, 352
E, 375, 354, 353, 386

E, 348, 384, 351, 340
E, 349, 385, 384, 348
E, 350, 377, 385, 349
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 390, 362, 595, 350
E, 389, 361, 362, 390
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 392, 391, 349, 348
E, 363, 392, 348, 340
E, 363, 390, 391, 392
E, 390, 350, 349, 391
E, 364, 389, 390, 363
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 360, 345, 361, 389
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 344, 360, 389, 364
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 396, 367, 345, 360
E, 395, 665, 367, 396
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 393, 394, 398, 397
E, 394, 395, 396, 398
E, 397, 398, 396, 368
E, 369, 393, 397, 368
E, 368, 396, 360, 344
E, 346, 400, 393, 369
E, 346, 365, 399, 400
E, 400, 399, 394, 393
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 401, 347, 665, 395
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 399, 401, 395, 394
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 365, 347, 401, 399
E, 675, 373, 407, 406
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 406, 407, 408, 405
E, 405, 408, 403, 404
E, 413, 414, 409, 410
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 374, 347, 409, 414
E, 374, 414, 413, 412
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 412, 413, 410, 411
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 373, 374, 412, 407
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 407, 412, 411, 408
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 409, 347, 365, 416
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 410, 409, 416, 415
E, 415, 416, 365, 402
E, 408, 411, 417, 403
E, 417, 415, 402, 403
E, 411, 410, 415, 417
E, 355, 405, 404, 354
E, 356, 406, 405, 355
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 343, 675, 406, 356

TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 422, 419, 371, 370
E, 421, 418, 419, 422
E, 420, 421, 422, 370
E, 403, 402, 418, 421
E, 404, 403, 421, 420
E, 354, 404, 420, 353
E, 353, 420, 370, 342
E, 418, 423, 424, 419
E, 419, 424, 346, 371
E, 423, 365, 346, 424
E, 402, 365, 423, 418
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 459, 224, 441, 456
E, 442, 224, 459, 458
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 458, 459, 456, 457
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 425, 442, 458, 437
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 437, 458, 457, 438
E, 438, 457, 462, 439
E, 457, 456, 460, 462
E, 463, 461, 440, 426
E, 462, 460, 461, 463
E, 439, 462, 463, 426
E, 460, 464, 465, 461
E, 461, 465, 427, 440
E, 464, 441, 427, 465
E, 456, 441, 464, 460
E, 443, 468, 467, 444
E, 468, 469, 466, 467
E, 469, 438, 439, 466
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 587, 471, 468, 443
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 471, 470, 469, 468
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 587, 678, 470, 471
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 470, 437, 438, 469
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 678, 425, 437, 470
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 466, 439, 426, 445
E, 467, 466, 445, 446
E, 444, 467, 446, 430
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 473, 450, 587, 443
E, 472, 659, 450, 473
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 451, 472, 444, 430
E, 472, 473, 443, 444
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 448, 431, 659, 472
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 432, 448, 472, 451
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 474, 453, 431, 448
E, 452, 433, 453, 474

TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 434, 452, 474, 454
E, 454, 474, 448, 432
E, 455, 436, 427, 441
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 435, 455, 441, 224
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 455, 452, 434, 436
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 435, 433, 452, 455
E, 485, 488, 602, 598
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 486, 489, 488, 485
E, 487, 490, 489, 486
E, 476, 478, 490, 487
E, 520, 521, 525, 524
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 524, 525, 497, 496
E, 521, 522, 497, 525
E, 522, 485, 598, 497
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 519, 520, 524, 523
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 523, 524, 496, 495
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 492, 519, 523, 491
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 491, 523, 495, 597
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 517, 518, 526, 527
E, 527, 526, 521, 520
E, 493, 528, 519, 492
E, 528, 527, 520, 519
E, 493, 517, 527, 528
E, 529, 486, 485, 522
E, 518, 486, 529, 526
E, 526, 529, 522, 521
E, 531, 487, 486, 518
E, 530, 531, 518, 517
E, 494, 530, 517, 493
E, 480, 498, 530, 494
E, 498, 499, 531, 530
E, 499, 476, 487, 531
E, 533, 538, 537, 534
E, 538, 494, 493, 537
E, 532, 494, 538, 533
E, 503, 480, 494, 532
E, 534, 537, 536, 535
E, 537, 493, 492, 536
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 539, 491, 597, 60
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 536, 492, 491, 539
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 535, 536, 539, 60
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 482, 503, 532, 501
E, 501, 532, 533, 500
E, 541, 534, 535, 540
E, 500, 533, 534, 541

TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 500, 541, 540, 10
E, 10, 540, 535, 60
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 506, 482, 501, 542
E, 507, 506, 542, 543
E, 484, 507, 543, 505
E, 505, 543, 545, 504
E, 543, 542, 544, 545
E, 542, 501, 500, 544
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 545, 544, 155, 547
E, 504, 545, 547, 6
E, 547, 155, 10, 6
E, 544, 500, 10, 155
E, 556, 504, 6, 512
E, 555, 556, 512, 709
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 554, 559, 556, 555
E, 553, 557, 559, 554
E, 558, 505, 504, 560
E, 557, 558, 560, 559
E, 559, 560, 504, 556
E, 552, 561, 557, 553
E, 561, 513, 558, 557
E, 514, 513, 561, 552
E, 513, 484, 505, 558
E, 515, 514, 552, 548
E, 548, 552, 553, 549
E, 549, 553, 554, 550
E, 550, 554, 555, 551
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 551, 555, 709, 708
E, 565, 551, 708, 707
E, 562, 565, 707, 706
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 564, 548, 549, 567
E, 564, 567, 566, 563
E, 567, 549, 550, 566
E, 563, 566, 565, 562
E, 566, 550, 551, 565
E, 516, 515, 548, 564
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 488, 562, 706, 602
TYPE, 1 \$ REAL, 1 \$ MAT, 1
E, 489, 563, 562, 488
E, 490, 564, 563, 489
E, 478, 516, 564, 490
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 1512, 615, 570, 568
E, 1513, 614, 615, 1512
E, 1515, 612, 613, 606
E, 606, 613, 614, 1513
E, 1516, 611, 612, 1515
E, 1517, 610, 611, 1516
E, 569, 571, 610, 1517
E, 616, 621, 573, 572
E, 1548, 620, 621, 616
E, 568, 570, 619, 618
E, 618, 619, 620, 1548

E, 716, 622, 623, 715
E, 572, 573, 622, 716
E, 572, 716, 715, 574
E, 715, 623, 575, 574
E, 718, 628, 578, 1479
E, 717, 627, 628, 718
E, 1537, 717, 718, 1479
E, 1478, 625, 626, 719
E, 1478, 719, 717, 1537
E, 719, 626, 627, 717
E, 574, 575, 625, 1478
E, 721, 632, 580, 579
E, 720, 631, 632, 721
E, 629, 720, 721, 579
E, 1479, 578, 630, 722
E, 1479, 722, 720, 629
E, 722, 630, 631, 720
E, 1492, 642, 582, 581
E, 1491, 641, 642, 1492
E, 1490, 640, 641, 1491
E, 1489, 639, 640, 1490
E, 1488, 638, 639, 1489
E, 579, 580, 638, 1488
E, 581, 582, 571, 569
E, 729, 728, 727, 730
E, 620, 729, 730, 621
E, 730, 727, 650, 649
E, 621, 730, 649, 573
E, 619, 726, 729, 620
E, 726, 725, 728, 729
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 727, 732, 222, 650
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 728, 731, 732, 727
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 731, 648, 222, 732
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 725, 724, 731, 728
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 724, 723, 648, 731
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 570, 646, 726, 619
E, 646, 645, 725, 726
E, 645, 644, 724, 725
E, 644, 643, 723, 724
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 723, 453, 433, 648
E, 643, 431, 453, 723
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 750, 653, 652, 753
E, 751, 750, 753, 752
E, 741, 751, 752, 740
E, 753, 652, 651, 755
E, 752, 753, 755, 754
E, 740, 752, 754, 739
E, 754, 755, 757, 756
E, 755, 651, 586, 757
E, 658, 756, 757, 586
E, 739, 754, 756, 658
E, 748, 654, 653, 750

E, 749, 748, 750, 751
E, 742, 749, 751, 741
E, 743, 747, 749, 742
E, 747, 746, 748, 749
E, 746, 655, 654, 748
E, 764, 657, 656, 762
E, 765, 764, 762, 761
E, 763, 765, 761, 760
E, 767, 766, 764, 765
E, 763, 571, 767, 765
E, 571, 582, 766, 767
E, 766, 582, 657, 764
E, 758, 763, 760, 759
E, 610, 571, 763, 758
E, 759, 760, 769, 747
E, 760, 761, 768, 769
E, 769, 768, 746, 747
E, 762, 656, 655, 770
E, 768, 770, 655, 746
E, 761, 762, 770, 768
E, 611, 610, 758, 745
E, 745, 758, 759, 744
E, 744, 759, 747, 743
E, 773, 741, 740, 776
E, 774, 773, 776, 775
E, 734, 774, 775, 733
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 733, 775, 778, 450
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 775, 776, 777, 778
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 450, 778, 777, 587
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 776, 740, 739, 777
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 777, 739, 658, 587
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 735, 772, 774, 734
E, 772, 771, 773, 774
E, 771, 742, 741, 773
E, 612, 611, 745, 738
E, 738, 745, 744, 737
E, 737, 744, 743, 736
E, 735, 736, 771, 772
E, 736, 743, 742, 771
E, 614, 613, 786, 779
E, 779, 786, 785, 780
E, 780, 785, 784, 781
E, 613, 612, 738, 786
E, 786, 738, 737, 785
E, 785, 737, 736, 784
E, 787, 735, 734, 788
E, 782, 787, 788, 783
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 659, 789, 733, 450
E, 783, 788, 789, 659
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 788, 734, 733, 789
E, 781, 784, 787, 782
E, 784, 736, 735, 787

E, 645, 791, 792, 644
E, 791, 790, 793, 792
E, 790, 781, 782, 793
E, 792, 793, 795, 794
E, 793, 782, 783, 795
E, 794, 795, 783, 643
E, 644, 792, 794, 643
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 643, 783, 659, 431
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 615, 614, 779, 796
E, 796, 779, 780, 797
E, 797, 780, 781, 790
E, 800, 797, 790, 791
E, 798, 796, 797, 800
E, 646, 799, 801, 645
E, 799, 798, 800, 801
E, 801, 800, 791, 645
E, 803, 802, 798, 799
E, 646, 570, 803, 799
E, 570, 615, 802, 803
E, 802, 615, 796, 798
E, 641, 809, 815, 642
E, 642, 815, 657, 582
E, 828, 827, 830, 831
E, 831, 830, 655, 656
E, 829, 828, 831, 656
E, 815, 829, 656, 657
E, 827, 825, 824, 830
E, 830, 824, 654, 655
E, 833, 832, 827, 828
E, 810, 811, 832, 833
E, 809, 834, 829, 815
E, 809, 810, 833, 834
E, 834, 833, 828, 829
E, 811, 812, 826, 832
E, 832, 826, 825, 827
E, 824, 821, 653, 654
E, 825, 822, 821, 824
E, 812, 813, 823, 826
E, 826, 823, 822, 825
E, 835, 818, 817, 836
E, 836, 817, 816, 821
E, 822, 835, 836, 821
E, 821, 816, 652, 653
E, 823, 837, 835, 822
E, 837, 819, 818, 835
E, 813, 814, 820, 838
E, 838, 820, 819, 837
E, 813, 838, 837, 823
E, 840, 839, 843, 841
E, 839, 668, 669, 843
E, 841, 843, 669, 842
E, 842, 669, 586, 651
E, 818, 840, 841, 817
E, 817, 841, 842, 816
E, 816, 842, 651, 652
E, 819, 845, 840, 818
E, 845, 844, 839, 840
E, 844, 667, 668, 839

E, 847, 846, 844, 845
E, 820, 847, 845, 819
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 820, 347, 846, 847
E, 347, 667, 844, 846
E, 814, 665, 347, 820
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 850, 851, 813, 812
E, 807, 808, 851, 850
E, 851, 808, 814, 813
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 808, 367, 665, 814
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 849, 850, 812, 811
E, 806, 807, 850, 849
E, 848, 849, 811, 810
E, 805, 806, 849, 848
E, 804, 805, 848, 852
E, 639, 804, 852, 640
E, 852, 848, 810, 809
E, 640, 852, 809, 641
E, 663, 664, 856, 855
E, 855, 856, 807, 806
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 857, 345, 367, 808
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 856, 857, 808, 807
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 664, 345, 857, 856
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 854, 855, 806, 805
E, 662, 663, 855, 854
E, 853, 854, 805, 804
E, 661, 662, 854, 853
E, 638, 853, 804, 639
E, 580, 661, 853, 638
E, 865, 861, 860, 866
E, 864, 865, 866, 867
E, 672, 864, 867, 673
E, 866, 860, 859, 869
E, 867, 866, 869, 868
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 868, 869, 859, 675
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 673, 867, 868, 674
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 674, 868, 675, 343
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 870, 871, 865, 864
E, 871, 862, 861, 865
E, 671, 862, 871, 870
E, 671, 870, 864, 672
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 425, 678, 863, 670
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 670, 863, 862, 671
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 859, 858, 373, 675
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 861, 872, 873, 860

E, 860, 873, 669, 859
E, 872, 586, 669, 873
E, 859, 669, 668, 858
E, 863, 658, 874, 862
E, 862, 874, 872, 861
E, 874, 658, 586, 872
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 678, 587, 658, 863
E, 875, 667, 347, 374
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 858, 668, 667, 875
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 373, 858, 875, 374
E, 76, 877, 879, 682
E, 682, 879, 679, 11
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 885, 631, 630, 881
E, 884, 885, 881, 880
E, 882, 631, 885, 884
E, 877, 883, 886, 879
E, 883, 882, 884, 886
E, 886, 884, 880, 879
E, 888, 887, 882, 883
E, 877, 878, 888, 883
E, 878, 632, 887, 888
E, 887, 632, 631, 882
E, 661, 580, 632, 878
E, 880, 881, 890, 889
E, 881, 630, 578, 890
E, 889, 890, 578, 679
E, 879, 880, 889, 679
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 876, 891, 75, 5
E, 891, 877, 76, 75
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 662, 661, 878, 892
E, 891, 892, 878, 877
E, 663, 662, 892, 891
E, 664, 663, 891, 876
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 362, 361, 33, 32
E, 361, 876, 5, 33
E, 345, 664, 876, 361
E, 683, 594, 686, 893
E, 595, 362, 893, 686
E, 893, 362, 32, 683
E, 902, 905, 495, 496
E, 905, 695, 597, 495
E, 905, 903, 3, 695
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 906, 904, 903, 905
E, 901, 906, 905, 902
E, 900, 899, 906, 901
E, 899, 898, 904, 906
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 903, 894, 28, 3
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 904, 895, 894, 903
E, 898, 896, 895, 904
TYPE, 1 \$ REAL, 8 \$ MAT, 1

E, 699, 218, 256, 907
E, 699, 907, 497, 598
E, 907, 902, 496, 497
E, 255, 900, 901, 908
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 908, 901, 902, 907
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 255, 908, 907, 256
E, 425, 670, 911, 442
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 670, 671, 910, 911
E, 672, 673, 897, 909
E, 671, 672, 909, 910
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 442, 911, 254, 224
E, 254, 911, 900, 255
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 911, 910, 899, 900
E, 910, 909, 898, 899
E, 909, 897, 896, 898
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 894, 915, 29, 28
E, 915, 914, 694, 29
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 912, 913, 914, 915
E, 895, 912, 915, 894
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 686, 594, 694, 916
E, 914, 357, 916, 694
E, 357, 595, 686, 916
E, 913, 358, 357, 914
E, 917, 359, 358, 913
E, 674, 343, 359, 917
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 896, 918, 912, 895
E, 918, 917, 913, 912
E, 673, 674, 919, 897
E, 919, 674, 917, 918
E, 897, 919, 918, 896
E, 936, 932, 933, 937
E, 937, 933, 931, 930
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 933, 707, 708, 931
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 934, 935, 938, 929
E, 938, 937, 930, 929
E, 935, 936, 937, 938
E, 923, 932, 936, 935
E, 922, 923, 935, 934
E, 939, 934, 929, 928
E, 921, 922, 934, 939
E, 921, 939, 928, 927
E, 920, 921, 927, 926
E, 623, 920, 926, 575
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 940, 711, 602, 706
E, 933, 940, 706, 707
E, 923, 713, 942, 932
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 932, 942, 941, 933

TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 713, 714, 941, 942
E, 711, 941, 714, 221
E, 941, 711, 940, 933
E, 931, 708, 709, 949
E, 949, 709, 512, 943
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 625, 950, 948, 626
E, 575, 926, 950, 625
E, 952, 953, 945, 946
E, 951, 952, 946, 947
E, 950, 951, 947, 948
E, 954, 949, 943, 944
E, 953, 954, 944, 945
E, 927, 928, 952, 951
E, 928, 929, 953, 952
E, 929, 930, 954, 953
E, 930, 931, 949, 954
E, 926, 927, 951, 950
E, 958, 959, 960, 957
E, 959, 955, 956, 960
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 957, 960, 66, 924
E, 960, 956, 67, 66
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 946, 945, 955, 959
E, 947, 946, 959, 958
E, 948, 947, 958, 925
E, 958, 957, 924, 925
E, 626, 948, 925, 627
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 943, 512, 6, 67
E, 944, 943, 67, 956
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 945, 944, 956, 955
E, 628, 961, 679, 578
E, 627, 925, 961, 628
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 924, 66, 11, 962
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 925, 924, 962, 961
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 961, 962, 11, 679
E, 650, 222, 712, 963
E, 963, 712, 713, 923
TYPE, 1 \$ REAL, 3 \$ MAT, 1
E, 966, 963, 923, 922
E, 964, 966, 922, 921
E, 649, 650, 967, 965
E, 965, 967, 966, 964
E, 650, 963, 966, 967
E, 968, 964, 921, 920
E, 622, 968, 920, 623
E, 573, 649, 965, 969
E, 573, 969, 968, 622
E, 969, 965, 964, 968
TYPE, 1 \$ REAL, 8 \$ MAT, 1
E, 711, 699, 598, 602
E, 711, 221, 218, 699
TYPE, 1 \$ REAL, 4 \$ MAT, 1

E, 1485, 981, 1054, 1598
E, 1598, 1054, 1053, 979
E, 983, 984, 1059, 1060
E, 1060, 1059, 1058, 1061
E, 1061, 1058, 1057, 1056
E, 982, 983, 1060, 1062
E, 1062, 1060, 1061, 1063
E, 1063, 1061, 1056, 1055
E, 1064, 1062, 1063, 1065
E, 1054, 1065, 1063, 1055
E, 981, 1064, 1065, 1054
E, 981, 982, 1062, 1064
E, 1058, 986, 987, 1057
E, 1059, 985, 986, 1058
E, 984, 972, 985, 1059
E, 1051, 1069, 1066, 1050
E, 1068, 1067, 1066, 1069
E, 1056, 1057, 1067, 1068
E, 1052, 1071, 1069, 1051
E, 1070, 1068, 1069, 1071
E, 1055, 1056, 1068, 1070
E, 1053, 1070, 1071, 1052
E, 1054, 1055, 1070, 1053
E, 1057, 987, 988, 1067
E, 1067, 988, 989, 1066
E, 1050, 1066, 989, 990
E, 978, 979, 1053, 1072
E, 970, 978, 1072, 996
E, 1078, 1051, 1050, 1077
E, 1079, 1078, 1077, 1076
E, 1074, 1079, 1076, 1075
E, 1080, 1052, 1051, 1078
E, 1081, 1080, 1078, 1079
E, 1073, 1081, 1079, 1074
E, 1072, 1053, 1081, 1073
E, 1053, 1052, 1080, 1081
E, 1075, 1076, 992, 993
E, 1076, 1077, 991, 992
E, 1077, 1050, 990, 991
E, 998, 1085, 1082, 999
E, 1085, 1084, 1083, 1082
E, 1084, 1074, 1075, 1083
E, 997, 1087, 1085, 998
E, 1087, 1086, 1084, 1085
E, 1086, 1073, 1074, 1084
E, 1089, 1088, 1086, 1087
E, 996, 1089, 1087, 997
E, 996, 1072, 1088, 1089
E, 1088, 1072, 1073, 1086
E, 1083, 1075, 993, 994
E, 1082, 1083, 994, 995
E, 999, 1082, 995, 973
E, 974, 1003, 1094, 1000
E, 1000, 1094, 1093, 1633
E, 1005, 1006, 1099, 1100
E, 1100, 1099, 1098, 1101
E, 1101, 1098, 1097, 1096
E, 1004, 1005, 1100, 1102
E, 1102, 1100, 1101, 1103
E, 1103, 1101, 1096, 1095

E, 1104, 1102, 1103, 1105
E, 1094, 1105, 1103, 1095
E, 1003, 1104, 1105, 1094
E, 1003, 1004, 1102, 1104
E, 1098, 1016, 1015, 1097
E, 1099, 1017, 1016, 1098
E, 1006, 975, 1017, 1099
E, 1091, 1109, 1106, 1090
E, 1108, 1107, 1106, 1109
E, 1096, 1097, 1107, 1108
E, 1092, 1111, 1109, 1091
E, 1110, 1108, 1109, 1111
E, 1095, 1096, 1108, 1110
E, 1093, 1110, 1111, 1092
E, 1094, 1095, 1110, 1093
E, 1097, 1015, 1014, 1107
E, 1107, 1014, 1013, 1106
E, 1090, 1106, 1013, 1012
E, 1002, 1633, 1093, 1112
E, 970, 1002, 1112, 996
E, 1118, 1091, 1090, 1117
E, 1119, 1118, 1117, 1116
E, 1114, 1119, 1116, 1115
E, 1120, 1092, 1091, 1118
E, 1121, 1120, 1118, 1119
E, 1113, 1121, 1119, 1114
E, 1112, 1093, 1121, 1113
E, 1093, 1092, 1120, 1121
E, 1115, 1116, 1010, 1009
E, 1116, 1117, 1011, 1010
E, 1117, 1090, 1012, 1011
E, 998, 1125, 1122, 999
E, 1125, 1124, 1123, 1122
E, 1124, 1114, 1115, 1123
E, 997, 1127, 1125, 998
E, 1127, 1126, 1124, 1125
E, 1126, 1113, 1114, 1124
E, 1129, 1128, 1126, 1127
E, 996, 1129, 1127, 997
E, 996, 1112, 1128, 1129
E, 1128, 1112, 1113, 1126
E, 1123, 1115, 1009, 1008
E, 1122, 1123, 1008, 1007
E, 999, 1122, 1007, 973
E, 1486, 1021, 1134, 1637
E, 1637, 1134, 1133, 1636
E, 1023, 1024, 1139, 1140
E, 1140, 1139, 1138, 1141
E, 1141, 1138, 1137, 1136
E, 1022, 1023, 1140, 1142
E, 1142, 1140, 1141, 1143
E, 1143, 1141, 1136, 1135
E, 1144, 1142, 1143, 1145
E, 1134, 1145, 1143, 1135
E, 1021, 1144, 1145, 1134
E, 1021, 1022, 1142, 1144
E, 1138, 1034, 1033, 1137
E, 1139, 1035, 1034, 1138
E, 1024, 977, 1035, 1139
E, 1131, 1149, 1146, 1130

E, 1148, 1147, 1146, 1149
E, 1136, 1137, 1147, 1148
E, 1132, 1151, 1149, 1131
E, 1150, 1148, 1149, 1151
E, 1135, 1136, 1148, 1150
E, 1133, 1150, 1151, 1132
E, 1134, 1135, 1150, 1133
E, 1137, 1033, 1032, 1147
E, 1147, 1032, 1031, 1146
E, 1130, 1146, 1031, 1030
E, 1018, 1636, 1133, 1152
E, 974, 1018, 1152, 1003
E, 1158, 1131, 1130, 1157
E, 1159, 1158, 1157, 1156
E, 1154, 1159, 1156, 1155
E, 1160, 1132, 1131, 1158
E, 1161, 1160, 1158, 1159
E, 1153, 1161, 1159, 1154
E, 1152, 1133, 1161, 1153
E, 1133, 1132, 1160, 1161
E, 1155, 1156, 1028, 1027
E, 1156, 1157, 1029, 1028
E, 1157, 1130, 1030, 1029
E, 1005, 1165, 1162, 1006
E, 1165, 1164, 1163, 1162
E, 1164, 1154, 1155, 1163
E, 1004, 1167, 1165, 1005
E, 1167, 1166, 1164, 1165
E, 1166, 1153, 1154, 1164
E, 1169, 1168, 1166, 1167
E, 1003, 1169, 1167, 1004
E, 1003, 1152, 1168, 1169
E, 1168, 1152, 1153, 1166
E, 1163, 1155, 1027, 1026
E, 1162, 1163, 1026, 1025
E, 1006, 1162, 1025, 975
E, 1485, 981, 1174, 1616
E, 1616, 1174, 1173, 1037
E, 983, 984, 1179, 1180
E, 1180, 1179, 1178, 1181
E, 1181, 1178, 1177, 1176
E, 982, 983, 1180, 1182
E, 1182, 1180, 1181, 1183
E, 1183, 1181, 1176, 1175
E, 1184, 1182, 1183, 1185
E, 1174, 1185, 1183, 1175
E, 981, 1184, 1185, 1174
E, 981, 982, 1182, 1184
E, 1178, 1048, 1047, 1177
E, 1179, 1049, 1048, 1178
E, 984, 972, 1049, 1179
E, 1171, 1189, 1186, 1170
E, 1188, 1187, 1186, 1189
E, 1176, 1177, 1187, 1188
E, 1172, 1191, 1189, 1171
E, 1190, 1188, 1189, 1191
E, 1175, 1176, 1188, 1190
E, 1173, 1190, 1191, 1172
E, 1174, 1175, 1190, 1173
E, 1177, 1047, 1046, 1187

E, 1187, 1046, 1045, 1186
E, 1170, 1186, 1045, 1044
E, 1036, 1037, 1173, 1192
E, 1486, 1036, 1192, 1021
E, 1198, 1171, 1170, 1197
E, 1199, 1198, 1197, 1196
E, 1194, 1199, 1196, 1195
E, 1200, 1172, 1171, 1198
E, 1201, 1200, 1198, 1199
E, 1193, 1201, 1199, 1194
E, 1192, 1173, 1201, 1193
E, 1173, 1172, 1200, 1201
E, 1195, 1196, 1042, 1041
E, 1196, 1197, 1043, 1042
E, 1197, 1170, 1044, 1043
E, 1023, 1205, 1202, 1024
E, 1205, 1204, 1203, 1202
E, 1204, 1194, 1195, 1203
E, 1022, 1207, 1205, 1023
E, 1207, 1206, 1204, 1205
E, 1206, 1193, 1194, 1204
E, 1209, 1208, 1206, 1207
E, 1021, 1209, 1207, 1022
E, 1021, 1192, 1208, 1209
E, 1208, 1192, 1193, 1206
E, 1203, 1195, 1041, 1040
E, 1202, 1203, 1040, 1039
E, 1024, 1202, 1039, 977
TYPE, 1 \$ REAL, 5 \$ MAT, 1
E, 1298, 1306, 1546, 1213
E, 1306, 1305, 1545, 1546
E, 1299, 1307, 1306, 1298
E, 1300, 1308, 1307, 1299
E, 1301, 1309, 1308, 1300
E, 1227, 1228, 1309, 1301
E, 1309, 1310, 1311, 1308
E, 1310, 1303, 1304, 1311
E, 1308, 1311, 1304, 1307
E, 1307, 1304, 1305, 1306
E, 1228, 1229, 1310, 1309
E, 1229, 1230, 1303, 1310
E, 1315, 1314, 1313, 1312
E, 1304, 1315, 1312, 1305
E, 1304, 1232, 1314, 1315
E, 1314, 1232, 1233, 1313
E, 1230, 1211, 1231, 1303
E, 1303, 1231, 1232, 1304
E, 1305, 1312, 1544, 1545
E, 1312, 1313, 1302, 1544
E, 1313, 1233, 1234, 1302
E, 1316, 1235, 1480, 1236
E, 1544, 1302, 1316, 1236
E, 1302, 1234, 1235, 1316
E, 1324, 1323, 1322, 1321
E, 1247, 1324, 1321, 1246
E, 1247, 1318, 1323, 1324
E, 1323, 1318, 1319, 1322
E, 1210, 1224, 1317, 1248
E, 1248, 1317, 1318, 1247
E, 1322, 1319, 1534, 1535

E, 1321, 1322, 1535, 1320
E, 1246, 1321, 1320, 1245
E, 1244, 1325, 1536, 1476
E, 1245, 1320, 1325, 1244
E, 1320, 1535, 1536, 1325
E, 1319, 1326, 1240, 1534
E, 1326, 1298, 1213, 1240
E, 1330, 1329, 1328, 1331
E, 1331, 1328, 1327, 1318
E, 1317, 1330, 1331, 1318
E, 1318, 1327, 1326, 1319
E, 1224, 1225, 1330, 1317
E, 1225, 1226, 1329, 1330
E, 1327, 1299, 1298, 1326
E, 1328, 1300, 1299, 1327
E, 1329, 1301, 1300, 1328
E, 1226, 1227, 1301, 1329
E, 1332, 1341, 1560, 1483
E, 1341, 1340, 1559, 1560
E, 1342, 1336, 1337, 1345
E, 1345, 1337, 1338, 1344
E, 1343, 1342, 1345, 1344
E, 1335, 1343, 1344, 1334
E, 1344, 1338, 1339, 1346
E, 1334, 1344, 1346, 1333
E, 1346, 1339, 1340, 1341
E, 1333, 1346, 1341, 1332
E, 1254, 1255, 1336, 1342
E, 1253, 1254, 1342, 1343
E, 1252, 1253, 1343, 1335
E, 1338, 1349, 1348, 1339
E, 1337, 1261, 1349, 1338
E, 1349, 1261, 1260, 1348
E, 1336, 1262, 1261, 1337
E, 1348, 1260, 1259, 1347
E, 1339, 1348, 1347, 1340
E, 1255, 1216, 1262, 1336
E, 1347, 1259, 1258, 1265
E, 1340, 1347, 1265, 1559
E, 1265, 1258, 1257, 1557
E, 1557, 1257, 1256, 1263
E, 1263, 1256, 1217, 1475
E, 1361, 1356, 1357, 1360
E, 1274, 1361, 1360, 1275
E, 1274, 1355, 1356, 1361
E, 1273, 1354, 1355, 1274
E, 1360, 1357, 1358, 1359
E, 1275, 1360, 1359, 1276
E, 1215, 1249, 1354, 1273
E, 1359, 1358, 1269, 1563
E, 1276, 1359, 1563, 1277
E, 1355, 1363, 1364, 1356
E, 1363, 1352, 1351, 1364
E, 1356, 1364, 1351, 1357
E, 1357, 1351, 1350, 1358
E, 1358, 1350, 1268, 1269
E, 1354, 1362, 1363, 1355
E, 1362, 1353, 1352, 1363
E, 1249, 1250, 1362, 1354
E, 1250, 1251, 1353, 1362

E, 1350, 1332, 1483, 1268
E, 1351, 1333, 1332, 1350
E, 1352, 1334, 1333, 1351
E, 1251, 1252, 1335, 1353
E, 1353, 1335, 1334, 1352
E, 1279, 1565, 1471, 1221
E, 1278, 1564, 1565, 1279
E, 1277, 1563, 1564, 1278
E, 1388, 1383, 1277, 1278
E, 1387, 1384, 1383, 1388
E, 1386, 1385, 1384, 1387
E, 1373, 1374, 1385, 1386
E, 1391, 1388, 1278, 1279
E, 1390, 1387, 1388, 1391
E, 1389, 1386, 1387, 1390
E, 1372, 1373, 1386, 1389
E, 1285, 1372, 1389, 1393
E, 1393, 1389, 1390, 1392
E, 1222, 1285, 1393, 1392
E, 1394, 1391, 1279, 1221
E, 1222, 1392, 1394, 1221
E, 1392, 1390, 1391, 1394
E, 1383, 1396, 1276, 1277
E, 1384, 1395, 1396, 1383
E, 1395, 1382, 1276, 1396
E, 1374, 1375, 1397, 1385
E, 1397, 1375, 1382, 1395
E, 1385, 1397, 1395, 1384
E, 1375, 1376, 1381, 1382
E, 1382, 1381, 1275, 1276
E, 1376, 1377, 1380, 1381
E, 1381, 1380, 1274, 1275
E, 1377, 1378, 1379, 1380
E, 1380, 1379, 1273, 1274
E, 1378, 1283, 1284, 1379
E, 1379, 1284, 1215, 1273
E, 1530, 1365, 1372, 1285
E, 1365, 1366, 1373, 1372
E, 1366, 1367, 1374, 1373
E, 1367, 1368, 1375, 1374
E, 1368, 1369, 1376, 1375
E, 1371, 1282, 1283, 1378
E, 1370, 1371, 1378, 1377
E, 1369, 1370, 1377, 1376
E, 1476, 1244, 1405, 1532
E, 1532, 1405, 1404, 1531
E, 1412, 1413, 1409, 1408
E, 1246, 1247, 1413, 1412
E, 1413, 1247, 1410, 1409
E, 1247, 1248, 1411, 1410
E, 1406, 1412, 1408, 1407
E, 1245, 1246, 1412, 1406
E, 1248, 1210, 1280, 1411
E, 1410, 1411, 1398, 1399
E, 1409, 1410, 1399, 1400
E, 1407, 1408, 1401, 1402
E, 1408, 1409, 1400, 1401
E, 1411, 1280, 1281, 1398
E, 1244, 1245, 1406, 1415
E, 1415, 1406, 1407, 1414

E, 1244, 1415, 1414, 1405
E, 1414, 1407, 1402, 1403
E, 1405, 1414, 1403, 1404
E, 1531, 1404, 1365, 1530
E, 1404, 1403, 1366, 1365
E, 1403, 1402, 1367, 1366
E, 1402, 1401, 1368, 1367
E, 1401, 1400, 1369, 1368
E, 1398, 1281, 1282, 1371
E, 1399, 1398, 1371, 1370
E, 1400, 1399, 1370, 1369
E, 1257, 1439, 1434, 1258
E, 1439, 1438, 1435, 1434
E, 1438, 1437, 1436, 1435
E, 1437, 1424, 1425, 1436
E, 1256, 1442, 1439, 1257
E, 1442, 1441, 1438, 1439
E, 1441, 1440, 1437, 1438
E, 1440, 1423, 1424, 1437
E, 1542, 1423, 1440, 1444
E, 1443, 1444, 1440, 1441
E, 1223, 1542, 1444, 1443
E, 1217, 1445, 1442, 1256
E, 1217, 1223, 1443, 1445
E, 1445, 1443, 1441, 1442
E, 1434, 1447, 1259, 1258
E, 1434, 1435, 1446, 1447
E, 1447, 1446, 1433, 1259
E, 1436, 1425, 1426, 1448
E, 1448, 1426, 1433, 1446
E, 1435, 1436, 1448, 1446
E, 1426, 1427, 1432, 1433
E, 1259, 1433, 1432, 1260
E, 1432, 1427, 1428, 1431
E, 1260, 1432, 1431, 1261
E, 1431, 1428, 1429, 1430
E, 1261, 1431, 1430, 1262
E, 1430, 1429, 1296, 1297
E, 1262, 1430, 1297, 1216
E, 1542, 1291, 1422, 1423
E, 1423, 1422, 1421, 1424
E, 1424, 1421, 1420, 1425
E, 1425, 1420, 1419, 1426
E, 1426, 1419, 1418, 1427
E, 1429, 1416, 1295, 1296
E, 1428, 1417, 1416, 1429
E, 1427, 1418, 1417, 1428
E, 1289, 1480, 1235, 1456
E, 1540, 1289, 1456, 1455
E, 1459, 1463, 1464, 1460
E, 1463, 1233, 1232, 1464
E, 1464, 1232, 1461, 1460
E, 1232, 1231, 1462, 1461
E, 1458, 1457, 1463, 1459
E, 1234, 1233, 1463, 1457
E, 1462, 1231, 1211, 1293
E, 1461, 1462, 1449, 1450
E, 1460, 1461, 1450, 1451
E, 1453, 1458, 1459, 1452
E, 1452, 1459, 1460, 1451

E, 1449, 1462, 1293, 1294
E, 1235, 1234, 1457, 1466
E, 1465, 1466, 1457, 1458
E, 1456, 1235, 1466, 1465
E, 1454, 1465, 1458, 1453
E, 1455, 1456, 1465, 1454
E, 1291, 1540, 1455, 1422
E, 1422, 1455, 1454, 1421
E, 1421, 1454, 1453, 1420
E, 1420, 1453, 1452, 1419
E, 1419, 1452, 1451, 1418
E, 1416, 1449, 1294, 1295
E, 1417, 1450, 1449, 1416
E, 1418, 1451, 1450, 1417
TYPE, 1 \$ REAL, 7 \$ MAT, 1
E, 1654, 1650, 1649, 1655
E, 1655, 1649, 1648, 1656
E, 1656, 1648, 1647, 1657
E, 1658, 1646, 1501, 1502
E, 1657, 1647, 1646, 1658
E, 1638, 1658, 1502, 1503
E, 1639, 1657, 1658, 1638
E, 1640, 1656, 1657, 1639
E, 1642, 1654, 1655, 1641
E, 1641, 1655, 1656, 1640
E, 1660, 1651, 1650, 1654
E, 1659, 1652, 1651, 1660
E, 1643, 1660, 1654, 1642
E, 1644, 1659, 1660, 1643
E, 1645, 1661, 1659, 1644
E, 1661, 1653, 1652, 1659
E, 1491, 1492, 1661, 1645
E, 1492, 581, 1653, 1661
E, 1648, 1498, 1499, 1647
E, 1649, 1497, 1498, 1648
E, 1650, 1496, 1497, 1649
E, 1646, 1500, 1470, 1501
E, 1647, 1499, 1500, 1646
E, 1651, 1495, 1496, 1650
E, 1652, 1494, 1495, 1651
E, 581, 569, 1493, 1653
E, 1653, 1493, 1494, 1652
E, 1222, 1669, 1505, 1471
E, 1669, 1668, 1504, 1505
E, 1507, 1672, 1670, 1506
E, 1508, 1673, 1672, 1507
E, 1509, 1674, 1673, 1508
E, 579, 1488, 1676, 1511
E, 1511, 1676, 1675, 1510
E, 1510, 1675, 1674, 1509
E, 1674, 1679, 1678, 1673
E, 1675, 1663, 1679, 1674
E, 1679, 1663, 1664, 1678
E, 1676, 1662, 1663, 1675
E, 1678, 1664, 1665, 1677
E, 1673, 1678, 1677, 1672
E, 1488, 1489, 1662, 1676
E, 1677, 1665, 1666, 1671
E, 1672, 1677, 1671, 1670
E, 1506, 1670, 1681, 1222

E, 1670, 1671, 1680, 1681
E, 1681, 1680, 1669, 1222
E, 1671, 1666, 1667, 1680
E, 1680, 1667, 1668, 1669
E, 1687, 1642, 1641, 1686
E, 1684, 1687, 1686, 1685
E, 1684, 1643, 1642, 1687
E, 1664, 1684, 1685, 1665
E, 1686, 1641, 1640, 1666
E, 1665, 1685, 1686, 1666
E, 1666, 1640, 1639, 1667
E, 1663, 1683, 1684, 1664
E, 1683, 1644, 1643, 1684
E, 1667, 1639, 1638, 1668
E, 1662, 1682, 1683, 1663
E, 1682, 1645, 1644, 1683
E, 1668, 1638, 1503, 1504
E, 1489, 1490, 1682, 1662
E, 1490, 1491, 1645, 1682
E, 1691, 1692, 1715, 1713
E, 1692, 1693, 1712, 1715
E, 1713, 1715, 1712, 1714
E, 1714, 1712, 1707, 1706
E, 1705, 1713, 1714, 1706
E, 1690, 1691, 1713, 1705
E, 1689, 1690, 1705, 1704
E, 1693, 1694, 1711, 1712
E, 1712, 1711, 1708, 1707
E, 1688, 1689, 1704, 1703
E, 1694, 1695, 1710, 1711
E, 1711, 1710, 1709, 1708
E, 1526, 1688, 1703, 1525
E, 1695, 1515, 606, 1710
E, 1710, 606, 1513, 1709
E, 1705, 1706, 1699, 1698
E, 1704, 1705, 1698, 1697
E, 1525, 1703, 1696, 1524
E, 1703, 1704, 1697, 1696
E, 1706, 1707, 1700, 1699
E, 1707, 1708, 1701, 1700
E, 1709, 1513, 1512, 1702
E, 1708, 1709, 1702, 1701
E, 1718, 1719, 1521, 1520
E, 1700, 1701, 1719, 1718
E, 1719, 1701, 1522, 1521
E, 1701, 1702, 1523, 1522
E, 1717, 1718, 1520, 1519
E, 1699, 1700, 1718, 1717
E, 1702, 1512, 568, 1523
E, 1716, 1717, 1519, 1518
E, 1698, 1699, 1717, 1716
E, 1720, 1716, 1518, 1223
E, 1697, 1698, 1716, 1720
E, 1524, 1696, 1721, 1475
E, 1696, 1697, 1720, 1721
E, 1721, 1720, 1223, 1475
E, 1470, 1500, 1730, 1528
E, 1528, 1730, 1729, 1527
E, 1498, 1497, 1733, 1732
E, 1732, 1733, 1726, 1727

E, 1497, 1496, 1731, 1733
E, 1733, 1731, 1725, 1726
E, 1499, 1498, 1732, 1734
E, 1500, 1499, 1734, 1730
E, 1734, 1732, 1727, 1728
E, 1730, 1734, 1728, 1729
E, 1736, 1735, 1723, 1724
E, 1495, 1494, 1735, 1736
E, 1731, 1736, 1724, 1725
E, 1496, 1495, 1736, 1731
E, 1494, 1493, 1737, 1735
E, 1735, 1737, 1722, 1723
E, 1493, 569, 1517, 1737
E, 1737, 1517, 1516, 1722
E, 1527, 1729, 1688, 1526
E, 1729, 1728, 1689, 1688
E, 1728, 1727, 1690, 1689
E, 1727, 1726, 1691, 1690
E, 1726, 1725, 1692, 1691
E, 1725, 1724, 1693, 1692
E, 1724, 1723, 1694, 1693
E, 1723, 1722, 1695, 1694
E, 1722, 1516, 1515, 1695
E, 1741, 1740, 1532, 1476
E, 1510, 1509, 1740, 1741
E, 579, 1511, 1742, 629
E, 1511, 1510, 1741, 1742
E, 1742, 1741, 1476, 629
E, 1509, 1508, 1739, 1740
E, 1740, 1739, 1531, 1532
E, 1508, 1507, 1738, 1739
E, 1739, 1738, 1530, 1531
E, 1506, 1222, 1285, 1743
E, 1738, 1743, 1285, 1530
E, 1507, 1506, 1743, 1738
E, 1746, 1240, 1213, 1478
E, 1537, 1745, 1746, 1478
E, 1745, 1534, 1240, 1746
E, 1744, 1535, 1534, 1745
E, 1479, 1744, 1745, 1537
E, 629, 1476, 1536, 1747
E, 1747, 1536, 1535, 1744
E, 629, 1747, 1744, 1479
E, 1749, 1748, 1480, 1753
E, 1753, 1480, 1289, 1752
E, 1752, 1289, 1540, 1751
E, 1751, 1540, 1291, 1750
E, 1523, 1749, 1753, 1522
E, 1522, 1753, 1752, 1521
E, 1521, 1752, 1751, 1520
E, 1520, 1751, 1750, 1519
E, 1518, 1754, 1542, 1223
E, 1750, 1291, 1542, 1754
E, 1519, 1750, 1754, 1518
E, 618, 1548, 1748, 1749
E, 568, 618, 1749, 1523
E, 1757, 1478, 1213, 1546
E, 574, 1478, 1757, 1756
E, 1756, 1757, 1546, 1545
E, 1755, 1756, 1545, 1544

E, 572, 574, 1756, 1755
E, 616, 572, 1755, 1758
E, 1758, 1755, 1544, 1236
E, 1548, 616, 1758, 1748
E, 1748, 1758, 1236, 1480
E, 1483, 1560, 1775, 1550
E, 1560, 1559, 1774, 1775
E, 1775, 1774, 1769, 1768
E, 1550, 1775, 1768, 1551
E, 1559, 1265, 1773, 1774
E, 1774, 1773, 1770, 1769
E, 1557, 1263, 1776, 1781
E, 1781, 1776, 1777, 1779
E, 1265, 1782, 1780, 1773
E, 1782, 1781, 1779, 1780
E, 1265, 1557, 1781, 1782
E, 1779, 1777, 1778, 1783
E, 1783, 1778, 1772, 1771
E, 1773, 1780, 1784, 1770
E, 1784, 1783, 1771, 1770
E, 1780, 1779, 1783, 1784
E, 1776, 1785, 1786, 1777
E, 1777, 1786, 1223, 1778
E, 1785, 1475, 1223, 1786
E, 1263, 1475, 1785, 1776
E, 1778, 1223, 1542, 1772
E, 1551, 1768, 1763, 1552
E, 1768, 1769, 1764, 1763
E, 1769, 1770, 1765, 1764
E, 1770, 1771, 1766, 1765
E, 1772, 1542, 1291, 1767
E, 1771, 1772, 1767, 1766
E, 1764, 1765, 1789, 1788
E, 1788, 1789, 1760, 1761
E, 1765, 1766, 1760, 1789
E, 1766, 1767, 1759, 1760
E, 1763, 1764, 1788, 1787
E, 1787, 1788, 1761, 1762
E, 1767, 1291, 1540, 1759
E, 1552, 1763, 1787, 1553
E, 1553, 1787, 1762, 1554
E, 1759, 1540, 1289, 1790
E, 1760, 1759, 1790, 1791
E, 1761, 1760, 1791, 1792
E, 1762, 1761, 1792, 1793
E, 1554, 1762, 1793, 1555
E, 1792, 1791, 1544, 1545
E, 1793, 1792, 1545, 1546
E, 1555, 1793, 1546, 1213
E, 1791, 1790, 1236, 1544
E, 1790, 1289, 1480, 1236
E, 1483, 1550, 1810, 1268
E, 1268, 1810, 1809, 1269
E, 1810, 1803, 1804, 1809
E, 1550, 1551, 1803, 1810
E, 1269, 1809, 1808, 1563
E, 1809, 1804, 1805, 1808
E, 1564, 1816, 1811, 1565
E, 1816, 1814, 1812, 1811
E, 1563, 1808, 1815, 1817

E, 1817, 1815, 1814, 1816
E, 1563, 1817, 1816, 1564
E, 1814, 1818, 1813, 1812
E, 1818, 1806, 1807, 1813
E, 1808, 1805, 1819, 1815
E, 1819, 1805, 1806, 1818
E, 1815, 1819, 1818, 1814
E, 1811, 1812, 1821, 1820
E, 1812, 1813, 1222, 1821
E, 1820, 1821, 1222, 1471
E, 1565, 1811, 1820, 1471
E, 1813, 1807, 1285, 1222
E, 1551, 1552, 1798, 1803
E, 1803, 1798, 1799, 1804
E, 1804, 1799, 1800, 1805
E, 1805, 1800, 1801, 1806
E, 1807, 1802, 1530, 1285
E, 1806, 1801, 1802, 1807
E, 1799, 1823, 1824, 1800
E, 1823, 1796, 1795, 1824
E, 1800, 1824, 1795, 1801
E, 1801, 1795, 1794, 1802
E, 1798, 1822, 1823, 1799
E, 1822, 1797, 1796, 1823
E, 1802, 1794, 1531, 1530
E, 1552, 1553, 1822, 1798
E, 1553, 1554, 1797, 1822
E, 1794, 1825, 1532, 1531
E, 1795, 1826, 1825, 1794
E, 1796, 1827, 1826, 1795
E, 1797, 1828, 1827, 1796
E, 1554, 1555, 1828, 1797
E, 1827, 1534, 1535, 1826
E, 1828, 1240, 1534, 1827
E, 1555, 1213, 1240, 1828
E, 1826, 1535, 1536, 1825
E, 1825, 1536, 1476, 1532
TYPE, 1 \$ REAL, 6 \$ MAT, 1
E, 979, 1829, 1843, 1598
E, 1598, 1843, 1595, 1485
E, 1865, 1864, 1859, 1858
E, 1835, 1865, 1858, 1857
E, 1835, 1836, 1864, 1865
E, 1834, 1835, 1857, 1856
E, 1836, 1837, 1863, 1864
E, 1864, 1863, 1860, 1859
E, 1833, 1834, 1856, 1855
E, 1837, 1838, 1862, 1863
E, 1863, 1862, 1861, 1860
E, 1832, 1833, 1855, 1854
E, 1838, 1839, 1852, 1862
E, 1862, 1852, 1851, 1861
E, 1831, 1832, 1854, 1853
E, 1861, 1851, 1584, 1585
E, 1860, 1861, 1585, 1586
E, 1859, 1860, 1586, 1587
E, 1858, 1859, 1587, 1588
E, 1857, 1858, 1588, 1589
E, 1856, 1857, 1589, 1590
E, 1855, 1856, 1590, 1591

E, 1853, 1854, 1592, 1593
E, 1854, 1855, 1591, 1592
E, 1850, 1853, 1593, 1594
E, 1830, 1831, 1853, 1850
E, 1851, 1848, 1583, 1584
E, 1852, 1849, 1848, 1851
E, 1839, 1840, 1849, 1852
E, 1843, 1850, 1594, 1595
E, 1829, 1830, 1850, 1843
E, 1848, 1846, 1582, 1583
E, 1849, 1847, 1846, 1848
E, 1840, 1841, 1847, 1849
E, 1846, 1844, 1581, 1582
E, 1847, 1845, 1844, 1846
E, 1841, 1842, 1845, 1847
E, 1844, 1501, 1470, 1581
E, 1845, 1502, 1501, 1844
E, 1842, 1503, 1502, 1845
E, 970, 1580, 1866, 978
E, 978, 1866, 1829, 979
E, 1573, 1572, 1886, 1887
E, 1887, 1886, 1881, 1880
E, 1574, 1573, 1887, 1880
E, 1575, 1574, 1880, 1879
E, 1576, 1575, 1879, 1878
E, 1572, 1571, 1885, 1886
E, 1886, 1885, 1882, 1881
E, 1577, 1576, 1878, 1877
E, 1571, 1570, 1884, 1885
E, 1885, 1884, 1883, 1882
E, 1578, 1577, 1877, 1876
E, 1570, 1569, 1875, 1884
E, 1884, 1875, 1874, 1883
E, 1876, 1877, 1832, 1831
E, 1877, 1878, 1833, 1832
E, 1878, 1879, 1834, 1833
E, 1879, 1880, 1835, 1834
E, 1880, 1881, 1836, 1835
E, 1883, 1874, 1839, 1838
E, 1882, 1883, 1838, 1837
E, 1881, 1882, 1837, 1836
E, 1871, 1876, 1831, 1830
E, 1579, 1578, 1876, 1871
E, 1569, 1568, 1873, 1875
E, 1875, 1873, 1872, 1874
E, 1874, 1872, 1840, 1839
E, 1568, 1567, 1870, 1873
E, 1873, 1870, 1869, 1872
E, 1872, 1869, 1841, 1840
E, 1866, 1871, 1830, 1829
E, 1580, 1579, 1871, 1866
E, 1567, 1566, 1868, 1870
E, 1870, 1868, 1867, 1869
E, 1869, 1867, 1842, 1841
E, 1566, 1471, 1505, 1868
E, 1868, 1505, 1504, 1867
E, 1867, 1504, 1503, 1842
E, 1888, 1902, 1036, 1037
E, 1902, 1613, 1486, 1036
E, 1923, 1918, 1917, 1924

E, 1924, 1917, 1916, 1894
E, 1895, 1923, 1924, 1894
E, 1894, 1916, 1915, 1893
E, 1896, 1922, 1923, 1895
E, 1922, 1919, 1918, 1923
E, 1893, 1915, 1914, 1892
E, 1897, 1921, 1922, 1896
E, 1921, 1920, 1919, 1922
E, 1892, 1914, 1913, 1891
E, 1898, 1911, 1921, 1897
E, 1911, 1910, 1920, 1921
E, 1891, 1913, 1912, 1890
E, 1910, 1602, 1603, 1920
E, 1920, 1603, 1604, 1919
E, 1919, 1604, 1605, 1918
E, 1918, 1605, 1606, 1917
E, 1917, 1606, 1607, 1916
E, 1916, 1607, 1608, 1915
E, 1915, 1608, 1609, 1914
E, 1913, 1610, 1611, 1912
E, 1914, 1609, 1610, 1913
E, 1912, 1611, 1612, 1909
E, 1890, 1912, 1909, 1889
E, 1907, 1601, 1602, 1910
E, 1908, 1907, 1910, 1911
E, 1899, 1908, 1911, 1898
E, 1909, 1612, 1613, 1902
E, 1889, 1909, 1902, 1888
E, 1905, 1600, 1601, 1907
E, 1906, 1905, 1907, 1908
E, 1900, 1906, 1908, 1899
E, 1903, 1599, 1600, 1905
E, 1904, 1903, 1905, 1906
E, 1901, 1904, 1906, 1900
E, 1524, 1475, 1599, 1903
E, 1525, 1524, 1903, 1904
E, 1526, 1525, 1904, 1901
E, 1595, 1925, 1616, 1485
E, 1925, 1888, 1037, 1616
E, 1584, 1934, 1943, 1585
E, 1585, 1943, 1942, 1586
E, 1586, 1942, 1941, 1587
E, 1587, 1941, 1940, 1588
E, 1588, 1940, 1939, 1589
E, 1589, 1939, 1938, 1590
E, 1590, 1938, 1937, 1591
E, 1592, 1936, 1935, 1593
E, 1591, 1937, 1936, 1592
E, 1941, 1946, 1947, 1940
E, 1946, 1895, 1894, 1947
E, 1940, 1947, 1894, 1939
E, 1939, 1894, 1893, 1938
E, 1942, 1945, 1946, 1941
E, 1945, 1896, 1895, 1946
E, 1938, 1893, 1892, 1937
E, 1943, 1944, 1945, 1942
E, 1944, 1897, 1896, 1945
E, 1937, 1892, 1891, 1936
E, 1934, 1933, 1944, 1943
E, 1933, 1898, 1897, 1944

E, 1936, 1891, 1890, 1935
E, 1935, 1890, 1889, 1930
E, 1593, 1935, 1930, 1594
E, 1583, 1932, 1934, 1584
E, 1932, 1931, 1933, 1934
E, 1931, 1899, 1898, 1933
E, 1582, 1929, 1932, 1583
E, 1929, 1928, 1931, 1932
E, 1928, 1900, 1899, 1931
E, 1930, 1889, 1888, 1925
E, 1594, 1930, 1925, 1595
E, 1581, 1927, 1929, 1582
E, 1927, 1926, 1928, 1929
E, 1926, 1901, 1900, 1928
E, 1470, 1528, 1927, 1581
E, 1528, 1527, 1926, 1927
E, 1527, 1526, 1901, 1926
E, 1948, 1633, 1000, 1962
E, 1962, 1000, 974, 1631
E, 1983, 1984, 1977, 1978
E, 1984, 1954, 1976, 1977
E, 1955, 1954, 1984, 1983
E, 1954, 1953, 1975, 1976
E, 1956, 1955, 1983, 1982
E, 1982, 1983, 1978, 1979
E, 1953, 1952, 1974, 1975
E, 1957, 1956, 1982, 1981
E, 1981, 1982, 1979, 1980
E, 1952, 1951, 1973, 1974
E, 1958, 1957, 1981, 1971
E, 1971, 1981, 1980, 1970
E, 1951, 1950, 1972, 1973
E, 1970, 1980, 1621, 1620
E, 1980, 1979, 1622, 1621
E, 1979, 1978, 1623, 1622
E, 1978, 1977, 1624, 1623
E, 1977, 1976, 1625, 1624
E, 1976, 1975, 1626, 1625
E, 1975, 1974, 1627, 1626
E, 1973, 1972, 1629, 1628
E, 1974, 1973, 1628, 1627
E, 1972, 1969, 1630, 1629
E, 1950, 1949, 1969, 1972
E, 1967, 1970, 1620, 1619
E, 1968, 1971, 1970, 1967
E, 1959, 1958, 1971, 1968
E, 1969, 1962, 1631, 1630
E, 1949, 1948, 1962, 1969
E, 1965, 1967, 1619, 1618
E, 1966, 1968, 1967, 1965
E, 1960, 1959, 1968, 1966
E, 1963, 1965, 1618, 1617
E, 1964, 1966, 1965, 1963
E, 1961, 1960, 1966, 1964
E, 1268, 1963, 1617, 1483
E, 1269, 1964, 1963, 1268
E, 1563, 1961, 1964, 1269
E, 1580, 970, 1002, 1985
E, 1985, 1002, 1633, 1948
E, 1572, 1573, 2006, 2005

E, 2005, 2006, 1999, 2000
E, 1573, 1574, 1999, 2006
E, 1574, 1575, 1998, 1999
E, 1575, 1576, 1997, 1998
E, 1571, 1572, 2005, 2004
E, 2004, 2005, 2000, 2001
E, 1576, 1577, 1996, 1997
E, 1570, 1571, 2004, 2003
E, 2003, 2004, 2001, 2002
E, 1577, 1578, 1995, 1996
E, 1569, 1570, 2003, 1994
E, 1994, 2003, 2002, 1993
E, 1996, 1995, 1950, 1951
E, 1997, 1996, 1951, 1952
E, 1998, 1997, 1952, 1953
E, 1999, 1998, 1953, 1954
E, 2000, 1999, 1954, 1955
E, 1993, 2002, 1957, 1958
E, 2002, 2001, 1956, 1957
E, 2001, 2000, 1955, 1956
E, 1995, 1990, 1949, 1950
E, 1578, 1579, 1990, 1995
E, 1568, 1569, 1994, 1992
E, 1992, 1994, 1993, 1991
E, 1991, 1993, 1958, 1959
E, 1567, 1568, 1992, 1989
E, 1989, 1992, 1991, 1988
E, 1988, 1991, 1959, 1960
E, 1990, 1985, 1948, 1949
E, 1579, 1580, 1985, 1990
E, 1566, 1567, 1989, 1987
E, 1987, 1989, 1988, 1986
E, 1986, 1988, 1960, 1961
E, 1471, 1566, 1987, 1565
E, 1565, 1987, 1986, 1564
E, 1564, 1986, 1961, 1563
E, 2007, 1636, 1637, 2021
E, 2021, 1637, 1486, 1613
E, 2042, 2043, 2036, 2037
E, 2043, 2013, 2035, 2036
E, 2014, 2013, 2043, 2042
E, 2013, 2012, 2034, 2035
E, 2015, 2014, 2042, 2041
E, 2041, 2042, 2037, 2038
E, 2012, 2011, 2033, 2034
E, 2016, 2015, 2041, 2040
E, 2040, 2041, 2038, 2039
E, 2011, 2010, 2032, 2033
E, 2017, 2016, 2040, 2030
E, 2030, 2040, 2039, 2029
E, 2010, 2009, 2031, 2032
E, 2029, 2039, 1603, 1602
E, 2039, 2038, 1604, 1603
E, 2038, 2037, 1605, 1604
E, 2037, 2036, 1606, 1605
E, 2036, 2035, 1607, 1606
E, 2035, 2034, 1608, 1607
E, 2034, 2033, 1609, 1608
E, 2032, 2031, 1611, 1610
E, 2033, 2032, 1610, 1609

E, 2031, 2028, 1612, 1611
E, 2009, 2008, 2028, 2031
E, 2026, 2029, 1602, 1601
E, 2027, 2030, 2029, 2026
E, 2018, 2017, 2030, 2027
E, 2028, 2021, 1613, 1612
E, 2008, 2007, 2021, 2028
E, 2024, 2026, 1601, 1600
E, 2025, 2027, 2026, 2024
E, 2019, 2018, 2027, 2025
E, 2022, 2024, 1600, 1599
E, 2023, 2025, 2024, 2022
E, 2020, 2019, 2025, 2023
E, 1263, 2022, 1599, 1475
E, 1557, 2023, 2022, 1263
E, 1265, 2020, 2023, 1557
E, 1631, 974, 1018, 2044
E, 2044, 1018, 1636, 2007
E, 1620, 1621, 2062, 2053
E, 1621, 1622, 2061, 2062
E, 1622, 1623, 2060, 2061
E, 1623, 1624, 2059, 2060
E, 1624, 1625, 2058, 2059
E, 1625, 1626, 2057, 2058
E, 1626, 1627, 2056, 2057
E, 1628, 1629, 2054, 2055
E, 1627, 1628, 2055, 2056
E, 2060, 2059, 2066, 2065
E, 2065, 2066, 2013, 2014
E, 2059, 2058, 2013, 2066
E, 2058, 2057, 2012, 2013
E, 2061, 2060, 2065, 2064
E, 2064, 2065, 2014, 2015
E, 2057, 2056, 2011, 2012
E, 2062, 2061, 2064, 2063
E, 2063, 2064, 2015, 2016
E, 2056, 2055, 2010, 2011
E, 2053, 2062, 2063, 2052
E, 2052, 2063, 2016, 2017
E, 2055, 2054, 2009, 2010
E, 2054, 2049, 2008, 2009
E, 1629, 1630, 2049, 2054
E, 1619, 1620, 2053, 2051
E, 2051, 2053, 2052, 2050
E, 2050, 2052, 2017, 2018
E, 1618, 1619, 2051, 2048
E, 2048, 2051, 2050, 2047
E, 2047, 2050, 2018, 2019
E, 2049, 2044, 2007, 2008
E, 1630, 1631, 2044, 2049
E, 1617, 1618, 2048, 2046
E, 2046, 2048, 2047, 2045
E, 2045, 2047, 2019, 2020
E, 1483, 1617, 2046, 1560
E, 1560, 2046, 2045, 1559
E, 1559, 2045, 2020, 1265
TYPE, 1 \$ REAL, 5 \$ MAT, 1
E, 1223, 1217, 1475, 1475
E, 1222, 1221, 1471, 1471
ITER,,1,1

/COM
/COM CASE NUMBER 1
/COM
/COM RESTRAINT SET 1
DDELE, 1, ALL, 2066
/COM
/COM NODAL DISPLACEMENT RESTRAINTS
D, 1, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 2, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 7, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 8, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 12, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 13, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 14, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 15, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 46, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 47, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 68, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 69, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 70, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 71, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 72, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 73, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 74, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 78, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 219, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 220, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 223, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 225, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 228, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 246, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 247, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 248, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 265, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 266, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 273, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 275, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 276, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 340, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 342, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 344, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 346, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 351, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 352, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 363, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 364, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 368, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 369, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 370, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 371, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 426, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 427, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 430, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 432, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 434, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 436, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 440, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 445, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 446, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 451, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ

D, 1197, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1202, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1203, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1210, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1211, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1215, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1216, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1224, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1225, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1226, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1227, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1228, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1229, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1230, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1249, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1250, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1251, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1252, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1253, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1254, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1255, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1280, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1281, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1282, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1283, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1284, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1293, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1294, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1295, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1296, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ
D, 1297, UX, 0., , , UY, UZ, ROTX, ROTY, ROTZ

/COM

/COM LOAD SET 1

UTER,1,1,1

KRF,1

KSE,1

FDELE, 1, ALL, 2066

TDELE, 1, 2066

EPDELE, ALL, , ,ALL

/COM

/COM ELEMENT PRESSURE LOADS

/COM

EPDELE, ALL, , ,ALL

EP,	1,	1,	6980.0
EP,	2,	1,	6980.0
EP,	3,	1,	6980.0
EP,	4,	1,	6980.0
EP,	5,	1,	6980.0
EP,	6,	1,	6980.0
EP,	7,	1,	6980.0
EP,	8,	1,	6980.0
EP,	9,	1,	6980.0
EP,	10,	1,	6980.0
EP,	11,	1,	6980.0
EP,	12,	1,	6980.0
EP,	13,	1,	6980.0
EP,	14,	1,	6980.0
EP,	15,	1,	6980.0
EP,	16,	1,	6980.0
EP,	17,	1,	6980.0

EP,	18,	1,	6980.0
EP,	19,	1,	6980.0
EP,	20,	1,	6980.0
EP,	21,	1,	6980.0
EP,	22,	1,	6980.0
EP,	23,	1,	6980.0
EP,	24,	1,	6980.0
EP,	25,	1,	6980.0
EP,	26,	1,	6980.0
EP,	27,	1,	6980.0
EP,	28,	1,	6980.0
EP,	29,	1,	6980.0
EP,	30,	1,	6980.0
EP,	31,	1,	6980.0
EP,	32,	1,	6980.0
EP,	33,	1,	6980.0
EP,	34,	1,	6980.0
EP,	35,	1,	6980.0
EP,	36,	1,	6980.0
EP,	37,	1,	6980.0
EP,	38,	1,	6980.0
EP,	39,	1,	6980.0
EP,	40,	1,	6980.0
EP,	41,	1,	6980.0
EP,	42,	1,	6980.0
EP,	43,	1,	6980.0
EP,	44,	1,	6980.0
EP,	45,	1,	6980.0
EP,	46,	1,	6980.0
EP,	47,	1,	6980.0
EP,	48,	1,	6980.0
EP,	49,	1,	6980.0
EP,	50,	1,	6980.0
EP,	51,	1,	6980.0
EP,	52,	1,	6980.0
EP,	53,	1,	6980.0
EP,	54,	1,	6980.0
EP,	55,	1,	6980.0
EP,	56,	1,	6980.0
EP,	57,	1,	6980.0
EP,	58,	1,	6980.0
EP,	59,	1,	6980.0
EP,	60,	1,	6980.0
EP,	61,	1,	6980.0
EP,	62,	1,	6980.0
EP,	63,	1,	6980.0
EP,	64,	1,	6980.0
EP,	65,	1,	6980.0
EP,	66,	1,	6980.0
EP,	67,	1,	6980.0
EP,	68,	1,	6980.0
EP,	69,	1,	6980.0
EP,	70,	1,	6980.0
EP,	71,	1,	6980.0
EP,	72,	1,	6980.0
EP,	73,	1,	6980.0
EP,	74,	1,	6980.0
EP,	75,	1,	6980.0
EP,	76,	1,	6980.0
EP,	77,	1,	6980.0

EP,	78,	1,	6980.0
EP,	79,	1,	6980.0
EP,	80,	1,	6980.0
EP,	81,	1,	6980.0
EP,	82,	1,	6980.0
EP,	83,	1,	6980.0
EP,	84,	1,	6980.0
EP,	85,	1,	6980.0
EP,	86,	1,	6980.0
EP,	87,	1,	6980.0
EP,	88,	1,	6980.0
EP,	89,	1,	6980.0
EP,	90,	1,	6980.0
EP,	91,	1,	6980.0
EP,	92,	1,	6980.0
EP,	93,	1,	6980.0
EP,	94,	1,	6980.0
EP,	95,	1,	6980.0
EP,	96,	1,	6980.0
EP,	97,	1,	6980.0
EP,	98,	1,	6980.0
EP,	99,	1,	6980.0
EP,	100,	1,	6980.0
EP,	101,	1,	6980.0
EP,	102,	1,	6980.0
EP,	103,	1,	6980.0
EP,	104,	1,	6980.0
EP,	105,	1,	6980.0
EP,	106,	1,	6980.0
EP,	107,	1,	6980.0
EP,	108,	1,	6980.0
EP,	109,	1,	6980.0
EP,	110,	1,	6980.0
EP,	111,	1,	6980.0
EP,	112,	1,	6980.0
EP,	113,	1,	6980.0
EP,	114,	1,	6980.0
EP,	115,	1,	6980.0
EP,	116,	1,	6980.0
EP,	117,	1,	6980.0
EP,	118,	1,	6980.0
EP,	119,	1,	6980.0
EP,	120,	1,	6980.0
EP,	121,	1,	6980.0
EP,	122,	1,	6980.0
EP,	123,	1,	6980.0
EP,	124,	1,	6980.0
EP,	125,	1,	6980.0
EP,	126,	1,	6980.0
EP,	127,	1,	6980.0
EP,	128,	1,	6980.0
EP,	129,	1,	6980.0
EP,	130,	1,	6980.0
EP,	131,	1,	6980.0
EP,	132,	1,	6980.0
EP,	133,	1,	6980.0
EP,	134,	1,	6980.0
EP,	135,	1,	6980.0
EP,	136,	1,	6980.0
EP,	137,	1,	6980.0

EP,	138,	1,	6980.0
EP,	139,	1,	6980.0
EP,	140,	1,	6980.0
EP,	141,	1,	6980.0
EP,	142,	1,	6980.0
EP,	143,	1,	6980.0
EP,	144,	1,	6980.0
EP,	145,	1,	6980.0
EP,	146,	1,	6980.0
EP,	147,	1,	6980.0
EP,	148,	1,	6980.0
EP,	149,	1,	6980.0
EP,	150,	1,	6980.0
EP,	151,	1,	6980.0
EP,	152,	1,	6980.0
EP,	153,	1,	6980.0
EP,	154,	1,	6980.0
EP,	155,	1,	6980.0
EP,	156,	1,	6980.0
EP,	157,	1,	6980.0
EP,	158,	1,	6980.0
EP,	159,	1,	6980.0
EP,	160,	1,	6980.0
EP,	161,	1,	6980.0
EP,	162,	1,	6980.0
EP,	163,	1,	6980.0
EP,	164,	1,	6980.0
EP,	165,	1,	6980.0
EP,	166,	1,	6980.0
EP,	167,	1,	6980.0
EP,	168,	1,	6980.0
EP,	169,	1,	6980.0
EP,	170,	1,	6980.0
EP,	171,	1,	6980.0
EP,	172,	1,	6980.0
EP,	173,	1,	6980.0
EP,	174,	1,	6980.0
EP,	175,	1,	6980.0
EP,	176,	1,	6980.0
EP,	177,	1,	6980.0
EP,	178,	1,	6980.0
EP,	179,	1,	6980.0
EP,	180,	1,	6980.0
EP,	181,	1,	6980.0
EP,	182,	1,	6980.0
EP,	183,	1,	6980.0
EP,	184,	1,	6980.0
EP,	185,	1,	6980.0
EP,	186,	1,	6980.0
EP,	187,	1,	6980.0
EP,	188,	1,	6980.0
EP,	189,	1,	6980.0
EP,	190,	1,	6980.0
EP,	191,	1,	6980.0
EP,	192,	1,	6980.0
EP,	193,	1,	6980.0
EP,	194,	1,	6980.0
EP,	195,	1,	6980.0
EP,	196,	1,	6980.0
EP,	197,	1,	6980.0

EP,	198,	1,	6980.0
EP,	199,	1,	6980.0
EP,	200,	1,	6980.0
EP,	201,	1,	6980.0
EP,	202,	1,	6980.0
EP,	203,	1,	6980.0
EP,	204,	1,	6980.0
EP,	205,	1,	6980.0
EP,	206,	1,	6980.0
EP,	207,	1,	6980.0
EP,	208,	1,	6980.0
EP,	209,	1,	6980.0
EP,	210,	1,	6980.0
EP,	211,	1,	6980.0
EP,	212,	1,	6980.0
EP,	213,	1,	6980.0
EP,	214,	1,	6980.0
EP,	215,	1,	6980.0
EP,	216,	1,	6980.0
EP,	217,	1,	6980.0
EP,	218,	1,	6980.0
EP,	219,	1,	6980.0
EP,	220,	1,	6980.0
EP,	221,	1,	6980.0
EP,	222,	1,	6980.0
EP,	223,	1,	6980.0
EP,	224,	1,	6980.0
EP,	225,	1,	6980.0
EP,	226,	1,	6980.0
EP,	227,	1,	6980.0
EP,	228,	1,	6980.0
EP,	229,	1,	6980.0
EP,	230,	1,	6980.0
EP,	231,	1,	6980.0
EP,	232,	1,	6980.0
EP,	233,	1,	6980.0
EP,	234,	1,	6980.0
EP,	235,	1,	6980.0
EP,	236,	1,	6980.0
EP,	237,	1,	6980.0
EP,	238,	1,	6980.0
EP,	239,	1,	6980.0
EP,	240,	1,	6980.0
EP,	241,	1,	6980.0
EP,	242,	1,	6980.0
EP,	243,	1,	6980.0
EP,	244,	1,	6980.0
EP,	245,	1,	6980.0
EP,	246,	1,	6980.0
EP,	247,	1,	6980.0
EP,	248,	1,	6980.0
EP,	249,	1,	6980.0
EP,	250,	1,	6980.0
EP,	251,	1,	6980.0
EP,	252,	1,	6980.0
EP,	253,	1,	6980.0
EP,	254,	1,	6980.0
EP,	255,	1,	6980.0
EP,	256,	1,	6980.0
EP,	257,	1,	6980.0

EP,	258,	1,	6980.0
EP,	259,	1,	6980.0
EP,	260,	1,	6980.0
EP,	261,	1,	6980.0
EP,	262,	1,	6980.0
EP,	263,	1,	6980.0
EP,	264,	1,	6980.0
EP,	265,	1,	6980.0
EP,	266,	1,	6980.0
EP,	267,	1,	6980.0
EP,	268,	1,	6980.0
EP,	269,	1,	6980.0
EP,	270,	1,	6980.0
EP,	271,	1,	6980.0
EP,	272,	1,	6980.0
EP,	273,	1,	6980.0
EP,	274,	1,	6980.0
EP,	275,	1,	6980.0
EP,	276,	1,	6980.0
EP,	277,	1,	6980.0
EP,	278,	1,	6980.0
EP,	279,	1,	6980.0
EP,	280,	1,	6980.0
EP,	281,	1,	6980.0
EP,	282,	1,	6980.0
EP,	283,	1,	6980.0
EP,	284,	1,	6980.0
EP,	285,	1,	6980.0
EP,	286,	1,	6980.0
EP,	287,	1,	6980.0
EP,	288,	1,	6980.0
EP,	289,	1,	6980.0
EP,	290,	1,	6980.0
EP,	291,	1,	6980.0
EP,	292,	1,	6980.0
EP,	293,	1,	6980.0
EP,	294,	1,	6980.0
EP,	295,	1,	6980.0
EP,	296,	1,	6980.0
EP,	297,	1,	6980.0
EP,	298,	1,	6980.0
EP,	299,	1,	6980.0
EP,	300,	1,	6980.0
EP,	301,	1,	6980.0
EP,	302,	1,	6980.0
EP,	303,	1,	6980.0
EP,	304,	1,	6980.0
EP,	305,	1,	6980.0
EP,	306,	1,	6980.0
EP,	307,	1,	6980.0
EP,	308,	1,	6980.0
EP,	309,	1,	6980.0
EP,	310,	1,	6980.0
EP,	311,	1,	6980.0
EP,	312,	1,	6980.0
EP,	313,	1,	6980.0
EP,	314,	1,	6980.0
EP,	315,	1,	6980.0
EP,	316,	1,	6980.0
EP,	317,	1,	6980.0

EP,	318,	1,	6980.0
EP,	319,	1,	6980.0
EP,	320,	1,	6980.0
EP,	321,	1,	6980.0
EP,	322,	1,	6980.0
EP,	323,	1,	6980.0
EP,	324,	1,	6980.0
EP,	325,	1,	6980.0
EP,	326,	1,	6980.0
EP,	327,	1,	6980.0
EP,	328,	1,	6980.0
EP,	329,	1,	6980.0
EP,	330,	1,	6980.0
EP,	331,	1,	6980.0
EP,	332,	1,	6980.0
EP,	333,	1,	6980.0
EP,	334,	1,	6980.0
EP,	335,	1,	6980.0
EP,	336,	1,	6980.0
EP,	337,	1,	6980.0
EP,	338,	1,	6980.0
EP,	339,	1,	6980.0
EP,	340,	1,	6980.0
EP,	341,	1,	6980.0
EP,	342,	1,	6980.0
EP,	343,	1,	6980.0
EP,	344,	1,	6980.0
EP,	345,	1,	6980.0
EP,	346,	1,	6980.0
EP,	347,	1,	6980.0
EP,	348,	1,	6980.0
EP,	349,	1,	6980.0
EP,	350,	1,	6980.0
EP,	351,	1,	6980.0
EP,	352,	1,	6980.0
EP,	353,	1,	6980.0
EP,	354,	1,	6980.0
EP,	355,	1,	6980.0
EP,	356,	1,	6980.0
EP,	357,	1,	6980.0
EP,	358,	1,	6980.0
EP,	359,	1,	6980.0
EP,	360,	1,	6980.0
EP,	361,	1,	6980.0
EP,	362,	1,	6980.0
EP,	363,	1,	6980.0
EP,	364,	1,	6980.0
EP,	365,	1,	6980.0
EP,	366,	1,	6980.0
EP,	367,	1,	6980.0
EP,	368,	1,	6980.0
EP,	369,	1,	6980.0
EP,	370,	1,	6980.0
EP,	371,	1,	6980.0
EP,	372,	1,	6980.0
EP,	373,	1,	6980.0
EP,	374,	1,	6980.0
EP,	375,	1,	6980.0
EP,	376,	1,	6980.0
EP,	377,	1,	6980.0

EP,	378,	1,	6980.0
EP,	379,	1,	6980.0
EP,	380,	1,	6980.0
EP,	381,	1,	6980.0
EP,	382,	1,	6980.0
EP,	383,	1,	6980.0
EP,	384,	1,	6980.0
EP,	385,	1,	6980.0
EP,	386,	1,	6980.0
EP,	387,	1,	6980.0
EP,	388,	1,	6980.0
EP,	389,	1,	6980.0
EP,	390,	1,	6980.0
EP,	391,	1,	6980.0
EP,	392,	1,	6980.0
EP,	393,	1,	6980.0
EP,	394,	1,	6980.0
EP,	395,	1,	6980.0
EP,	396,	1,	6980.0
EP,	397,	1,	6980.0
EP,	398,	1,	6980.0
EP,	399,	1,	6980.0
EP,	400,	1,	6980.0
EP,	401,	1,	6980.0
EP,	402,	1,	6980.0
EP,	403,	1,	6980.0
EP,	404,	1,	6980.0
EP,	405,	1,	6980.0
EP,	406,	1,	6980.0
EP,	407,	1,	6980.0
EP,	408,	1,	6980.0
EP,	409,	1,	6980.0
EP,	410,	1,	6980.0
EP,	411,	1,	6980.0
EP,	412,	1,	6980.0
EP,	413,	1,	6980.0
EP,	414,	1,	6980.0
EP,	415,	1,	6980.0
EP,	416,	1,	6980.0
EP,	417,	1,	6980.0
EP,	418,	1,	6980.0
EP,	419,	1,	6980.0
EP,	420,	1,	6980.0
EP,	421,	1,	6980.0
EP,	422,	1,	6980.0
EP,	423,	1,	6980.0
EP,	424,	1,	6980.0
EP,	425,	1,	6980.0
EP,	426,	1,	6980.0
EP,	427,	1,	6980.0
EP,	428,	1,	6980.0
EP,	429,	1,	6980.0
EP,	430,	1,	6980.0
EP,	431,	1,	6980.0
EP,	432,	1,	6980.0
EP,	433,	1,	6980.0
EP,	434,	1,	6980.0
EP,	435,	1,	6980.0
EP,	436,	1,	6980.0
EP,	437,	1,	6980.0

EP,	438,	1,	6980.0
EP,	439,	1,	6980.0
EP,	440,	1,	6980.0
EP,	441,	1,	6980.0
EP,	442,	1,	6980.0
EP,	443,	1,	6980.0
EP,	444,	1,	6980.0
EP,	445,	1,	6980.0
EP,	446,	1,	6980.0
EP,	447,	1,	6980.0
EP,	448,	1,	6980.0
EP,	449,	1,	6980.0
EP,	450,	1,	6980.0
EP,	451,	1,	6980.0
EP,	452,	1,	6980.0
EP,	453,	1,	6980.0
EP,	454,	1,	6980.0
EP,	455,	1,	6980.0
EP,	456,	1,	6980.0
EP,	457,	1,	6980.0
EP,	458,	1,	6980.0
EP,	459,	1,	6980.0
EP,	460,	1,	6980.0
EP,	461,	1,	6980.0
EP,	462,	1,	6980.0
EP,	463,	1,	6980.0
EP,	464,	1,	6980.0
EP,	465,	1,	6980.0
EP,	466,	1,	6980.0
EP,	467,	1,	6980.0
EP,	468,	1,	6980.0
EP,	469,	1,	6980.0
EP,	470,	1,	6980.0
EP,	471,	1,	6980.0
EP,	472,	1,	6980.0
EP,	473,	1,	6980.0
EP,	474,	1,	6980.0
EP,	475,	1,	6980.0
EP,	476,	1,	6980.0
EP,	477,	1,	6980.0
EP,	478,	1,	6980.0
EP,	479,	1,	6980.0
EP,	480,	1,	6980.0
EP,	481,	1,	6980.0
EP,	482,	1,	6980.0
EP,	483,	1,	6980.0
EP,	484,	1,	6980.0
EP,	485,	1,	6980.0
EP,	486,	1,	6980.0
EP,	487,	1,	6980.0
EP,	488,	1,	6980.0
EP,	489,	1,	6980.0
EP,	490,	1,	6980.0
EP,	491,	1,	6980.0
EP,	492,	1,	6980.0
EP,	493,	1,	6980.0
EP,	494,	1,	6980.0
EP,	495,	1,	6980.0
EP,	496,	1,	6980.0
EP,	497,	1,	6980.0

EP,	498,	1,	6980.0
EP,	499,	1,	6980.0
EP,	500,	1,	6980.0
EP,	501,	1,	6980.0
EP,	502,	1,	6980.0
EP,	503,	1,	6980.0
EP,	504,	1,	6980.0
EP,	505,	1,	6980.0
EP,	506,	1,	6980.0
EP,	507,	1,	6980.0
EP,	508,	1,	6980.0
EP,	509,	1,	6980.0
EP,	510,	1,	6980.0
EP,	511,	1,	6980.0
EP,	512,	1,	6980.0
EP,	513,	1,	6980.0
EP,	514,	1,	6980.0
EP,	515,	1,	6980.0
EP,	516,	1,	6980.0
EP,	517,	1,	6980.0
EP,	518,	1,	6980.0
EP,	519,	1,	6980.0
EP,	520,	1,	6980.0
EP,	521,	1,	6980.0
EP,	522,	1,	6980.0
EP,	523,	1,	6980.0
EP,	524,	1,	6980.0
EP,	525,	1,	6980.0
EP,	526,	1,	6980.0
EP,	527,	1,	6980.0
EP,	528,	1,	6980.0
EP,	529,	1,	6980.0
EP,	530,	1,	6980.0
EP,	531,	1,	6980.0
EP,	532,	1,	6980.0
EP,	533,	1,	6980.0
EP,	534,	1,	6980.0
EP,	535,	1,	6980.0
EP,	536,	1,	6980.0
EP,	537,	1,	6980.0
EP,	538,	1,	6980.0
EP,	539,	1,	6980.0
EP,	540,	1,	6980.0
EP,	541,	1,	6980.0
EP,	542,	1,	6980.0
EP,	543,	1,	6980.0
EP,	544,	1,	6980.0
EP,	545,	1,	6980.0
EP,	546,	1,	6980.0
EP,	547,	1,	6980.0
EP,	548,	1,	6980.0
EP,	549,	1,	6980.0
EP,	550,	1,	6980.0
EP,	551,	1,	6980.0
EP,	552,	1,	6980.0
EP,	553,	1,	6980.0
EP,	554,	1,	6980.0
EP,	555,	1,	6980.0
EP,	556,	1,	6980.0
EP,	557,	1,	6980.0

EP,	558,	1,	6980.0
EP,	559,	1,	6980.0
EP,	560,	1,	6980.0
EP,	561,	1,	6980.0
EP,	562,	1,	6980.0
EP,	563,	1,	6980.0
EP,	564,	1,	6980.0
EP,	565,	1,	6980.0
EP,	566,	1,	6980.0
EP,	567,	1,	6980.0
EP,	568,	1,	6980.0
EP,	569,	1,	6980.0
EP,	570,	1,	6980.0
EP,	571,	1,	6980.0
EP,	572,	1,	6980.0
EP,	573,	1,	6980.0
EP,	574,	1,	6980.0
EP,	575,	1,	6980.0
EP,	576,	1,	6980.0
EP,	577,	1,	6980.0
EP,	578,	1,	6980.0
EP,	579,	1,	6980.0
EP,	580,	1,	6980.0
EP,	581,	1,	6980.0
EP,	582,	1,	6980.0
EP,	583,	1,	6980.0
EP,	584,	1,	6980.0
EP,	585,	1,	6980.0
EP,	586,	1,	6980.0
EP,	587,	1,	6980.0
EP,	588,	1,	6980.0
EP,	589,	1,	6980.0
EP,	590,	1,	6980.0
EP,	591,	1,	6980.0
EP,	592,	1,	6980.0
EP,	593,	1,	6980.0
EP,	594,	1,	6980.0
EP,	595,	1,	6980.0
EP,	596,	1,	6980.0
EP,	597,	1,	6980.0
EP,	598,	1,	6980.0
EP,	599,	1,	6980.0
EP,	600,	1,	6980.0
EP,	601,	1,	6980.0
EP,	602,	1,	6980.0
EP,	603,	1,	6980.0
EP,	604,	1,	6980.0
EP,	605,	1,	6980.0
EP,	606,	1,	6980.0
EP,	607,	1,	6980.0
EP,	608,	1,	6980.0
EP,	609,	1,	6980.0
EP,	610,	1,	6980.0
EP,	611,	1,	6980.0
EP,	612,	1,	6980.0
EP,	613,	1,	6980.0
EP,	614,	1,	6980.0
EP,	615,	1,	6980.0
EP,	616,	1,	6980.0
EP,	617,	1,	6980.0

EP,	618,	1,	6980.0
EP,	619,	1,	6980.0
EP,	620,	1,	6980.0
EP,	621,	1,	6980.0
EP,	622,	1,	6980.0
EP,	623,	1,	6980.0
EP,	624,	1,	6980.0
EP,	625,	1,	6980.0
EP,	626,	1,	6980.0
EP,	627,	1,	6980.0
EP,	628,	1,	6980.0
EP,	629,	1,	6980.0
EP,	630,	1,	6980.0
EP,	631,	1,	6980.0
EP,	632,	1,	6980.0
EP,	633,	1,	6980.0
EP,	634,	1,	6980.0
EP,	635,	1,	6980.0
EP,	636,	1,	6980.0
EP,	637,	1,	6980.0
EP,	638,	1,	6980.0
EP,	639,	1,	6980.0
EP,	640,	1,	6980.0
EP,	641,	1,	6980.0
EP,	642,	1,	6980.0
EP,	643,	1,	6980.0
EP,	644,	1,	6980.0
EP,	645,	1,	6980.0
EP,	646,	1,	6980.0
EP,	647,	1,	6980.0
EP,	648,	1,	6980.0
EP,	649,	1,	6980.0
EP,	650,	1,	6980.0
EP,	651,	1,	6980.0
EP,	652,	1,	6980.0
EP,	653,	1,	6980.0
EP,	654,	1,	6980.0
EP,	655,	1,	6980.0
EP,	656,	1,	6980.0
EP,	657,	1,	6980.0
EP,	658,	1,	6980.0
EP,	659,	1,	6980.0
EP,	660,	1,	6980.0
EP,	661,	1,	6980.0
EP,	662,	1,	6980.0
EP,	663,	1,	6980.0
EP,	664,	1,	6980.0
EP,	665,	1,	6980.0
EP,	666,	1,	6980.0
EP,	667,	1,	6980.0
EP,	668,	1,	6980.0
EP,	669,	1,	6980.0
EP,	670,	1,	6980.0
EP,	671,	1,	6980.0
EP,	672,	1,	6980.0
EP,	673,	1,	6980.0
EP,	674,	1,	6980.0
EP,	675,	1,	6980.0
EP,	676,	1,	6980.0
EP,	677,	1,	6980.0

EP,	678,	1,	6980.0
EP,	679,	1,	6980.0
EP,	680,	1,	6980.0
EP,	681,	1,	6980.0
EP,	682,	1,	6980.0
EP,	683,	1,	6980.0
EP,	684,	1,	6980.0
EP,	685,	1,	6980.0
EP,	686,	1,	6980.0
EP,	687,	1,	6980.0
EP,	688,	1,	6980.0
EP,	689,	1,	6980.0
EP,	690,	1,	6980.0
EP,	691,	1,	6980.0
EP,	692,	1,	6980.0
EP,	693,	1,	6980.0
EP,	694,	1,	6980.0
EP,	695,	1,	6980.0
EP,	696,	1,	6980.0
EP,	697,	1,	6980.0
EP,	698,	1,	6980.0
EP,	699,	1,	6980.0
EP,	700,	1,	6980.0
EP,	701,	1,	6980.0
EP,	702,	1,	6980.0
EP,	703,	1,	6980.0
EP,	704,	1,	6980.0
EP,	705,	1,	6980.0
EP,	706,	1,	6980.0
EP,	707,	1,	6980.0
EP,	708,	1,	6980.0
EP,	709,	1,	6980.0
EP,	710,	1,	6980.0
EP,	711,	1,	6980.0
EP,	712,	1,	6980.0
EP,	713,	1,	6980.0
EP,	714,	1,	6980.0
EP,	715,	1,	6980.0
EP,	716,	1,	6980.0
EP,	717,	1,	6980.0
EP,	718,	1,	6980.0
EP,	719,	1,	6980.0
EP,	720,	1,	6980.0
EP,	721,	1,	6980.0
EP,	722,	1,	6980.0
EP,	723,	1,	6980.0
EP,	724,	1,	6980.0
EP,	725,	1,	6980.0
EP,	726,	1,	6980.0
EP,	727,	1,	6980.0
EP,	728,	1,	6980.0
EP,	729,	1,	6980.0
EP,	730,	1,	6980.0
EP,	731,	1,	6980.0
EP,	732,	1,	6980.0
EP,	733,	1,	6980.0
EP,	734,	1,	6980.0
EP,	735,	1,	6980.0
EP,	736,	1,	6980.0
EP,	737,	1,	6980.0

EP,	738,	1,	6980.0
EP,	739,	1,	6980.0
EP,	740,	1,	6980.0
EP,	741,	1,	6980.0
EP,	742,	1,	6980.0
EP,	743,	1,	6980.0
EP,	744,	1,	6980.0
EP,	745,	1,	6980.0
EP,	746,	1,	6980.0
EP,	747,	1,	6980.0
EP,	748,	1,	6980.0
EP,	749,	1,	6980.0
EP,	750,	1,	6980.0
EP,	751,	1,	6980.0
EP,	752,	1,	6980.0
EP,	753,	1,	6980.0
EP,	754,	1,	6980.0
EP,	755,	1,	6980.0
EP,	756,	1,	6980.0
EP,	757,	1,	6980.0
EP,	758,	1,	6980.0
EP,	759,	1,	6980.0
EP,	760,	1,	6980.0
EP,	761,	1,	6980.0
EP,	762,	1,	6980.0
EP,	763,	1,	6980.0
EP,	764,	1,	6980.0
EP,	765,	1,	6980.0
EP,	766,	1,	6980.0
EP,	767,	1,	6980.0
EP,	768,	1,	6980.0
EP,	769,	1,	6980.0
EP,	770,	1,	6980.0
EP,	771,	1,	6980.0
EP,	772,	1,	6980.0
EP,	773,	1,	6980.0
EP,	774,	1,	6980.0
EP,	775,	1,	6980.0
EP,	776,	1,	6980.0
EP,	777,	1,	6980.0
EP,	778,	1,	6980.0
EP,	779,	1,	6980.0
EP,	780,	1,	6980.0
EP,	781,	1,	6980.0
EP,	782,	1,	6980.0
EP,	783,	1,	6980.0
EP,	784,	1,	6980.0
EP,	785,	1,	6980.0
EP,	786,	1,	6980.0
EP,	787,	1,	6980.0
EP,	788,	1,	6980.0
EP,	789,	1,	6980.0
EP,	790,	1,	6980.0
EP,	791,	1,	6980.0
EP,	792,	1,	6980.0
EP,	793,	1,	6980.0
EP,	794,	1,	6980.0
EP,	795,	1,	6980.0
EP,	796,	1,	6980.0
EP,	797,	1,	6980.0

EP,	798,	1,	6980.0
EP,	799,	1,	6980.0
EP,	800,	1,	6980.0
EP,	801,	1,	6980.0
EP,	802,	1,	6980.0
EP,	803,	1,	6980.0
EP,	804,	1,	6980.0
EP,	805,	1,	6980.0
EP,	806,	1,	6980.0
EP,	807,	1,	6980.0
EP,	808,	1,	6980.0
EP,	809,	1,	6980.0
EP,	810,	1,	6980.0
EP,	811,	1,	6980.0
EP,	812,	1,	6980.0
EP,	813,	1,	6980.0
EP,	814,	1,	6980.0
EP,	815,	1,	6980.0
EP,	816,	1,	6980.0
EP,	817,	1,	6980.0
EP,	818,	1,	6980.0
EP,	819,	1,	6980.0
EP,	820,	1,	6980.0
EP,	821,	1,	6980.0
EP,	822,	1,	6980.0
EP,	823,	1,	6980.0
EP,	824,	1,	6980.0
EP,	825,	1,	6980.0
EP,	826,	1,	6980.0
EP,	827,	1,	6980.0
EP,	828,	1,	6980.0
EP,	829,	1,	6980.0
EP,	830,	1,	6980.0
EP,	831,	1,	6980.0
EP,	832,	1,	6980.0
EP,	833,	1,	6980.0
EP,	834,	1,	6980.0
EP,	835,	1,	6980.0
EP,	836,	1,	6980.0
EP,	837,	1,	6980.0
EP,	838,	1,	6980.0
EP,	839,	1,	6980.0
EP,	840,	1,	6980.0
EP,	841,	1,	6980.0
EP,	842,	1,	6980.0
EP,	843,	1,	6980.0
EP,	844,	1,	6980.0
EP,	845,	1,	6980.0
EP,	846,	1,	6980.0
EP,	847,	1,	6980.0
EP,	848,	1,	6980.0
EP,	849,	1,	6980.0
EP,	850,	1,	6980.0
EP,	851,	1,	6980.0
EP,	852,	1,	6980.0
EP,	853,	1,	6980.0
EP,	854,	1,	6980.0
EP,	855,	1,	6980.0
EP,	856,	1,	6980.0
EP,	857,	1,	6980.0

EP,	858,	1,	6980.0
EP,	1292,	1,	6980.0
EP,	1293,	1,	6980.0
EP,	1294,	1,	6980.0
EP,	1295,	1,	6980.0
EP,	1296,	1,	6980.0
EP,	1297,	1,	6980.0
EP,	1298,	1,	6980.0
EP,	1299,	1,	6980.0
EP,	1300,	1,	6980.0
EP,	1301,	1,	6980.0
EP,	1302,	1,	6980.0
EP,	1303,	1,	6980.0
EP,	1304,	1,	6980.0
EP,	1305,	1,	6980.0
EP,	1306,	1,	6980.0
EP,	1307,	1,	6980.0
EP,	1308,	1,	6980.0
EP,	1309,	1,	6980.0
EP,	1310,	1,	6980.0
EP,	1311,	1,	6980.0
EP,	1312,	1,	6980.0
EP,	1313,	1,	6980.0
EP,	1314,	1,	6980.0
EP,	1315,	1,	6980.0
EP,	1316,	1,	6980.0
EP,	1317,	1,	6980.0
EP,	1318,	1,	6980.0
EP,	1319,	1,	6980.0
EP,	1320,	1,	6980.0
EP,	1321,	1,	6980.0
EP,	1322,	1,	6980.0
EP,	1323,	1,	6980.0
EP,	1324,	1,	6980.0
EP,	1325,	1,	6980.0
EP,	1326,	1,	6980.0
EP,	1327,	1,	6980.0
EP,	1328,	1,	6980.0
EP,	1329,	1,	6980.0
EP,	1330,	1,	6980.0
EP,	1331,	1,	6980.0
EP,	1332,	1,	6980.0
EP,	1333,	1,	6980.0
EP,	1334,	1,	6980.0
EP,	1335,	1,	6980.0
EP,	1336,	1,	6980.0
EP,	1337,	1,	6980.0
EP,	1338,	1,	6980.0
EP,	1339,	1,	6980.0
EP,	1340,	1,	6980.0
EP,	1341,	1,	6980.0
EP,	1342,	1,	6980.0
EP,	1343,	1,	6980.0
EP,	1344,	1,	6980.0
EP,	1345,	1,	6980.0
EP,	1346,	1,	6980.0
EP,	1347,	1,	6980.0
EP,	1348,	1,	6980.0
EP,	1349,	1,	6980.0
EP,	1350,	1,	6980.0

EP,	1351,	1,	6980.0
EP,	1352,	1,	6980.0
EP,	1353,	1,	6980.0
EP,	1354,	1,	6980.0
EP,	1355,	1,	6980.0
EP,	1356,	1,	6980.0
EP,	1357,	1,	6980.0
EP,	1358,	1,	6980.0
EP,	1359,	1,	6980.0
EP,	1360,	1,	6980.0
EP,	1361,	1,	6980.0
EP,	1362,	1,	6980.0
EP,	1363,	1,	6980.0
EP,	1364,	1,	6980.0
EP,	1365,	1,	6980.0
EP,	1366,	1,	6980.0
EP,	1367,	1,	6980.0
EP,	1368,	1,	6980.0
EP,	1369,	1,	6980.0
EP,	1370,	1,	6980.0
EP,	1371,	1,	6980.0
EP,	1372,	1,	6980.0
EP,	1373,	1,	6980.0
EP,	1374,	1,	6980.0
EP,	1375,	1,	6980.0
EP,	1376,	1,	6980.0
EP,	1377,	1,	6980.0
EP,	1378,	1,	6980.0
EP,	1379,	1,	6980.0
EP,	1380,	1,	6980.0
EP,	1381,	1,	6980.0
EP,	1382,	1,	6980.0
EP,	1383,	1,	6980.0
EP,	1384,	1,	6980.0
EP,	1385,	1,	6980.0
EP,	1386,	1,	6980.0
EP,	1387,	1,	6980.0
EP,	1388,	1,	6980.0
EP,	1389,	1,	6980.0
EP,	1390,	1,	6980.0
EP,	1391,	1,	6980.0
EP,	1392,	1,	6980.0
EP,	1393,	1,	6980.0
EP,	1394,	1,	6980.0
EP,	1395,	1,	6980.0
EP,	1396,	1,	6980.0
EP,	1397,	1,	6980.0
EP,	1398,	1,	6980.0
EP,	1399,	1,	6980.0
EP,	1400,	1,	6980.0
EP,	1401,	1,	6980.0
EP,	1402,	1,	6980.0
EP,	1403,	1,	6980.0
EP,	1404,	1,	6980.0
EP,	1405,	1,	6980.0
EP,	1406,	1,	6980.0
EP,	1407,	1,	6980.0
EP,	1408,	1,	6980.0
EP,	1409,	1,	6980.0
EP,	1410,	1,	6980.0

EP,	1411,	1,	6980.0
EP,	1412,	1,	6980.0
EP,	1413,	1,	6980.0
EP,	1414,	1,	6980.0
EP,	1415,	1,	6980.0
EP,	1416,	1,	6980.0
EP,	1417,	1,	6980.0
EP,	1418,	1,	6980.0
EP,	1419,	1,	6980.0
EP,	1420,	1,	6980.0
EP,	1421,	1,	6980.0
EP,	1422,	1,	6980.0
EP,	1423,	1,	6980.0
EP,	1424,	1,	6980.0
EP,	1425,	1,	6980.0
EP,	1426,	1,	6980.0
EP,	1427,	1,	6980.0
EP,	1428,	1,	6980.0
EP,	1429,	1,	6980.0
EP,	1430,	1,	6980.0
EP,	1431,	1,	6980.0
EP,	1432,	1,	6980.0
EP,	1433,	1,	6980.0
EP,	1434,	1,	6980.0
EP,	1435,	1,	6980.0
EP,	1436,	1,	6980.0
EP,	1437,	1,	6980.0
EP,	1438,	1,	6980.0
EP,	1439,	1,	6980.0
EP,	1440,	1,	6980.0
EP,	1441,	1,	6980.0
EP,	1442,	1,	6980.0
EP,	1443,	1,	6980.0
EP,	1444,	1,	6980.0
EP,	1445,	1,	6980.0
EP,	1446,	1,	6980.0
EP,	1447,	1,	6980.0
EP,	1448,	1,	6980.0
EP,	1449,	1,	6980.0
EP,	1450,	1,	6980.0
EP,	1451,	1,	6980.0
EP,	1452,	1,	6980.0
EP,	1453,	1,	6980.0
EP,	1454,	1,	6980.0
EP,	1455,	1,	6980.0
EP,	1456,	1,	6980.0
EP,	1457,	1,	6980.0
EP,	1458,	1,	6980.0
EP,	1459,	1,	6980.0
EP,	1460,	1,	6980.0
EP,	1461,	1,	6980.0
EP,	1462,	1,	6980.0
EP,	1463,	1,	6980.0
EP,	1464,	1,	6980.0
EP,	1465,	1,	6980.0
EP,	1466,	1,	6980.0
EP,	1467,	1,	6980.0
EP,	1468,	1,	6980.0
EP,	1469,	1,	6980.0
EP,	1470,	1,	6980.0

EP,	1471,	1,	6980.0
EP,	1472,	1,	6980.0
EP,	1473,	1,	6980.0
EP,	1474,	1,	6980.0
EP,	1475,	1,	6980.0
EP,	1476,	1,	6980.0
EP,	1477,	1,	6980.0
EP,	1478,	1,	6980.0
EP,	1479,	1,	6980.0
EP,	1480,	1,	6980.0
EP,	1481,	1,	6980.0
EP,	1482,	1,	6980.0
EP,	1483,	1,	6980.0
EP,	1484,	1,	6980.0
EP,	1485,	1,	6980.0
EP,	1486,	1,	6980.0
EP,	1487,	1,	6980.0
EP,	1488,	1,	6980.0
EP,	1489,	1,	6980.0
EP,	1490,	1,	6980.0
EP,	1491,	1,	6980.0
EP,	1492,	1,	6980.0
EP,	1493,	1,	6980.0
EP,	1494,	1,	6980.0
EP,	1495,	1,	6980.0
EP,	1496,	1,	6980.0
EP,	1497,	1,	6980.0
EP,	1498,	1,	6980.0
EP,	1499,	1,	6980.0
EP,	1500,	1,	6980.0
EP,	1501,	1,	6980.0
EP,	1502,	1,	6980.0
EP,	1503,	1,	6980.0
EP,	1504,	1,	6980.0
EP,	1505,	1,	6980.0
EP,	1506,	1,	6980.0
EP,	1507,	1,	6980.0
EP,	1508,	1,	6980.0
EP,	1509,	1,	6980.0
EP,	1510,	1,	6980.0
EP,	1511,	1,	6980.0
EP,	1512,	1,	6980.0
EP,	1513,	1,	6980.0
EP,	1514,	1,	6980.0
EP,	1515,	1,	6980.0
EP,	1516,	1,	6980.0
EP,	1517,	1,	6980.0
EP,	1518,	1,	6980.0
EP,	1519,	1,	6980.0
EP,	1520,	1,	6980.0
EP,	1521,	1,	6980.0
EP,	1522,	1,	6980.0
EP,	1523,	1,	6980.0
EP,	1524,	1,	6980.0
EP,	1525,	1,	6980.0
EP,	1526,	1,	6980.0
EP,	1527,	1,	6980.0
EP,	1528,	1,	6980.0
EP,	1529,	1,	6980.0
EP,	1530,	1,	6980.0

EP,	1531,	1,	6980.0
EP,	1532,	1,	6980.0
EP,	1533,	1,	6980.0
EP,	1534,	1,	6980.0
EP,	1535,	1,	6980.0
EP,	1536,	1,	6980.0
EP,	1537,	1,	6980.0
EP,	1538,	1,	6980.0
EP,	1539,	1,	6980.0
EP,	1540,	1,	6980.0
EP,	1541,	1,	6980.0
EP,	1542,	1,	6980.0
EP,	1543,	1,	6980.0
EP,	1544,	1,	6980.0
EP,	1545,	1,	6980.0
EP,	1546,	1,	6980.0
EP,	1547,	1,	6980.0
EP,	1548,	1,	6980.0
EP,	1549,	1,	6980.0
EP,	1550,	1,	6980.0
EP,	1551,	1,	6980.0
EP,	1552,	1,	6980.0
EP,	1553,	1,	6980.0
EP,	1554,	1,	6980.0
EP,	1555,	1,	6980.0
EP,	1556,	1,	6980.0
EP,	1557,	1,	6980.0
EP,	1558,	1,	6980.0
EP,	1559,	1,	6980.0
EP,	1560,	1,	6980.0
EP,	1561,	1,	6980.0
EP,	1562,	1,	6980.0
EP,	1563,	1,	6980.0
EP,	1564,	1,	6980.0
EP,	1565,	1,	6980.0
EP,	1566,	1,	6980.0
EP,	1567,	1,	6980.0
EP,	1568,	1,	6980.0
EP,	1569,	1,	6980.0
EP,	1570,	1,	6980.0
EP,	1571,	1,	6980.0
EP,	1572,	1,	6980.0
EP,	1573,	1,	6980.0
EP,	1574,	1,	6980.0
EP,	1575,	1,	6980.0
EP,	1576,	1,	6980.0
EP,	1577,	1,	6980.0
EP,	1578,	1,	6980.0
EP,	1579,	1,	6980.0
EP,	1580,	1,	6980.0
EP,	1581,	1,	6980.0
EP,	1582,	1,	6980.0
EP,	1583,	1,	6980.0
EP,	1584,	1,	6980.0
EP,	1585,	1,	6980.0
EP,	1586,	1,	6980.0
EP,	1587,	1,	6980.0
EP,	1588,	1,	6980.0
EP,	1589,	1,	6980.0
EP,	1590,	1,	6980.0

EP,	1591,	1,	6980.0
EP,	1592,	1,	6980.0
EP,	1593,	1,	6980.0
EP,	1594,	1,	6980.0
EP,	1595,	1,	6980.0
EP,	1596,	1,	6980.0
EP,	1597,	1,	6980.0
EP,	1598,	1,	6980.0
EP,	1599,	1,	6980.0
EP,	1600,	1,	6980.0
EP,	1601,	1,	6980.0
EP,	1602,	1,	6980.0
EP,	1603,	1,	6980.0
EP,	1604,	1,	6980.0
EP,	1605,	1,	6980.0
EP,	1606,	1,	6980.0
EP,	1607,	1,	6980.0
EP,	1608,	1,	6980.0
EP,	1609,	1,	6980.0
EP,	1610,	1,	6980.0
EP,	1611,	1,	6980.0
EP,	1612,	1,	6980.0
EP,	1613,	1,	6980.0
EP,	1614,	1,	6980.0
EP,	1615,	1,	6980.0
EP,	1616,	1,	6980.0
EP,	1617,	1,	6980.0
EP,	1618,	1,	6980.0
EP,	1619,	1,	6980.0
EP,	1620,	1,	6980.0
EP,	1621,	1,	6980.0
EP,	1622,	1,	6980.0
EP,	1623,	1,	6980.0
EP,	1624,	1,	6980.0
EP,	1625,	1,	6980.0
EP,	1626,	1,	6980.0
EP,	1627,	1,	6980.0
EP,	1628,	1,	6980.0
EP,	1629,	1,	6980.0
EP,	1630,	1,	6980.0
EP,	1631,	1,	6980.0
EP,	1632,	1,	6980.0
EP,	1633,	1,	6980.0
EP,	1634,	1,	6980.0
EP,	1635,	1,	6980.0
EP,	1636,	1,	6980.0
EP,	1637,	1,	6980.0
EP,	1638,	1,	6980.0
EP,	1639,	1,	6980.0
EP,	1640,	1,	6980.0
EP,	1641,	1,	6980.0
EP,	1642,	1,	6980.0
EP,	1643,	1,	6980.0
EP,	1644,	1,	6980.0
EP,	1645,	1,	6980.0
EP,	1646,	1,	6980.0
EP,	1647,	1,	6980.0
EP,	1648,	1,	6980.0
EP,	1649,	1,	6980.0
EP,	1650,	1,	6980.0

EP,	1651,	1,	6980.0
EP,	1652,	1,	6980.0
EP,	1653,	1,	6980.0
EP,	1654,	1,	6980.0
EP,	1655,	1,	6980.0
EP,	1656,	1,	6980.0
EP,	1657,	1,	6980.0
EP,	1658,	1,	6980.0
EP,	1659,	1,	6980.0
EP,	1660,	1,	6980.0
EP,	1661,	1,	6980.0
EP,	1662,	1,	6980.0
EP,	1663,	1,	6980.0
EP,	1664,	1,	6980.0
EP,	1665,	1,	6980.0
EP,	1666,	1,	6980.0
EP,	1667,	1,	6980.0
EP,	1668,	1,	6980.0
EP,	1669,	1,	6980.0
EP,	1670,	1,	6980.0
EP,	1671,	1,	6980.0
EP,	1672,	1,	6980.0
EP,	1673,	1,	6980.0
EP,	1674,	1,	6980.0
EP,	1675,	1,	6980.0
EP,	1676,	1,	6980.0
EP,	1677,	1,	6980.0
EP,	1678,	1,	6980.0
EP,	1679,	1,	6980.0
EP,	1680,	1,	6980.0
EP,	1681,	1,	6980.0
EP,	1682,	1,	6980.0
EP,	1683,	1,	6980.0
EP,	1684,	1,	6980.0
EP,	1685,	1,	6980.0
EP,	1686,	1,	6980.0
EP,	1687,	1,	6980.0
EP,	1688,	1,	6980.0
EP,	1689,	1,	6980.0
EP,	1690,	1,	6980.0
EP,	1691,	1,	6980.0
EP,	1692,	1,	6980.0
EP,	1693,	1,	6980.0
EP,	1694,	1,	6980.0
EP,	1695,	1,	6980.0
EP,	1696,	1,	6980.0
EP,	1697,	1,	6980.0
EP,	1698,	1,	6980.0
EP,	1699,	1,	6980.0
EP,	1700,	1,	6980.0
EP,	1701,	1,	6980.0
EP,	1702,	1,	6980.0
EP,	1703,	1,	6980.0
EP,	1704,	1,	6980.0
EP,	1705,	1,	6980.0
EP,	1706,	1,	6980.0
EP,	1707,	1,	6980.0
EP,	1708,	1,	6980.0
EP,	1709,	1,	6980.0
EP,	1710,	1,	6980.0

EP,	1711,	1,	6980.0
EP,	1712,	1,	6980.0
EP,	1713,	1,	6980.0
EP,	1714,	1,	6980.0
EP,	1715,	1,	6980.0
EP,	1716,	1,	6980.0
EP,	1717,	1,	6980.0
EP,	1718,	1,	6980.0
EP,	1719,	1,	6980.0
EP,	1720,	1,	6980.0
EP,	1721,	1,	6980.0
EP,	1722,	1,	6980.0
EP,	1723,	1,	6980.0
EP,	1724,	1,	6980.0
EP,	1725,	1,	6980.0
EP,	1726,	1,	6980.0
EP,	1727,	1,	6980.0
EP,	1728,	1,	6980.0
EP,	1729,	1,	6980.0
EP,	1730,	1,	6980.0
EP,	1731,	1,	6980.0
EP,	1732,	1,	6980.0
EP,	1733,	1,	6980.0
EP,	1734,	1,	6980.0
EP,	1735,	1,	6980.0
EP,	1736,	1,	6980.0
EP,	1737,	1,	6980.0
EP,	1738,	1,	6980.0
EP,	1739,	1,	6980.0
EP,	1740,	1,	6980.0
EP,	1741,	1,	6980.0
EP,	1742,	1,	6980.0
EP,	1743,	1,	6980.0
EP,	1744,	1,	6980.0
EP,	1745,	1,	6980.0
EP,	1746,	1,	6980.0
EP,	1747,	1,	6980.0
EP,	1748,	1,	6980.0
EP,	1749,	1,	6980.0
EP,	1750,	1,	6980.0
EP,	1751,	1,	6980.0
EP,	1752,	1,	6980.0
EP,	1753,	1,	6980.0
EP,	1754,	1,	6980.0
EP,	1755,	1,	6980.0
EP,	1756,	1,	6980.0
EP,	1757,	1,	6980.0
EP,	1758,	1,	6980.0
EP,	1759,	1,	6980.0
EP,	1760,	1,	6980.0
EP,	1761,	1,	6980.0
EP,	1762,	1,	6980.0
EP,	1763,	1,	6980.0
EP,	1764,	1,	6980.0
EP,	1765,	1,	6980.0
EP,	1766,	1,	6980.0
EP,	1767,	1,	6980.0
EP,	1768,	1,	6980.0
EP,	1769,	1,	6980.0
EP,	1770,	1,	6980.0

EP,	1771,	1,	6980.0
EP,	1772,	1,	6980.0
EP,	1773,	1,	6980.0
EP,	1774,	1,	6980.0
EP,	1775,	1,	6980.0
EP,	1776,	1,	6980.0
EP,	1777,	1,	6980.0
EP,	1778,	1,	6980.0
EP,	1779,	1,	6980.0
EP,	1780,	1,	6980.0
EP,	1781,	1,	6980.0
EP,	1782,	1,	6980.0
EP,	1783,	1,	6980.0
EP,	1784,	1,	6980.0
EP,	1785,	1,	6980.0
EP,	1786,	1,	6980.0
EP,	1787,	1,	6980.0
EP,	1788,	1,	6980.0
EP,	1789,	1,	6980.0
EP,	1790,	1,	6980.0
EP,	1791,	1,	6980.0
EP,	1792,	1,	6980.0
EP,	1793,	1,	6980.0
EP,	1794,	1,	6980.0
EP,	1795,	1,	6980.0
EP,	1796,	1,	6980.0
EP,	1797,	1,	6980.0
EP,	1798,	1,	6980.0
EP,	1799,	1,	6980.0
EP,	1800,	1,	6980.0
EP,	1801,	1,	6980.0
EP,	1802,	1,	6980.0
EP,	1803,	1,	6980.0
EP,	1804,	1,	6980.0
EP,	1805,	1,	6980.0
EP,	1806,	1,	6980.0
EP,	1807,	1,	6980.0
EP,	1808,	1,	6980.0
EP,	1809,	1,	6980.0
EP,	1810,	1,	6980.0
EP,	1811,	1,	6980.0
EP,	1812,	1,	6980.0
EP,	1813,	1,	6980.0
EP,	1814,	1,	6980.0
EP,	1815,	1,	6980.0
EP,	1816,	1,	6980.0
EP,	1817,	1,	6980.0
EP,	1818,	1,	6980.0
EP,	1819,	1,	6980.0
EP,	1820,	1,	6980.0
EP,	1821,	1,	6980.0
EP,	1822,	1,	6980.0
EP,	1823,	1,	6980.0
EP,	1824,	1,	6980.0
EP,	1825,	1,	6980.0
EP,	1826,	1,	6980.0
EP,	1827,	1,	6980.0
EP,	1828,	1,	6980.0
EP,	1829,	1,	6980.0
EP,	1830,	1,	6980.0

EP, 1831, 1, 6980.0
EP, 1832, 1, 6980.0
EP, 1833, 1, 6980.0
EP, 1834, 1, 6980.0
EP, 1835, 1, 6980.0
EP, 1836, 1, 6980.0
EP, 1837, 1, 6980.0
EP, 1838, 1, 6980.0
EP, 1839, 1, 6980.0
EP, 1840, 1, 6980.0
EP, 1841, 1, 6980.0
EP, 1842, 1, 6980.0
EP, 1843, 1, 6980.0
EP, 1844, 1, 6980.0
EP, 1845, 1, 6980.0
EP, 1846, 1, 6980.0
EP, 1847, 1, 6980.0
EP, 1848, 1, 6980.0
EP, 1849, 1, 6980.0
EP, 1850, 1, 6980.0
EP, 1851, 1, 6980.0
EP, 1852, 1, 6980.0
EP, 1853, 1, 6980.0
EP, 1854, 1, 6980.0
EP, 1855, 1, 6980.0
EP, 1856, 1, 6980.0
EP, 1857, 1, 6980.0
EP, 1858, 1, 6980.0
EP, 1859, 1, 6980.0
EP, 1860, 1, 6980.0
EP, 1861, 1, 6980.0
EP, 1862, 1, 6980.0
EP, 1863, 1, 6980.0
EP, 1864, 1, 6980.0
EP, 1865, 1, 6980.0
EP, 1866, 1, 6980.0
EP, 1867, 1, 6980.0
EP, 1868, 1, 6980.0
EP, 1869, 1, 6980.0
EP, 1870, 1, 6980.0
EP, 1871, 1, 6980.0

WSORT,Z

LWRITE

AFWRITE

FINISH

/INPUT,27

FINISH